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CREATING TOMORROW'S SOLUTIONS

ELASTOSIL®

LUMISIL®

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**SOLID AND  
LIQUID SILICONE RUBBER  
PRODUCT SELECTION GUIDE**



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ELASTOSIL®



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Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 Munich, Germany  
[www.wacker.com/contact](http://www.wacker.com/contact)

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PRODUCT OVERVIEW

## PEROXIDE-CURING SOLID SILICONE RUBBER

Multi-purpose · High green strength · High tear resistance ·  
Low compression set

6709C e/09.22 replaces 6709C e/05.21

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

| Main characteristics | Brand       | Product       | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Data obtained with curing agent | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Flame retardancy – UL94 listing (C1, C6 and E) | Molding | Extrusion   | Appearance   | Typical applications   |
|----------------------|-------------|---------------|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|---------------------------------|--|---------|-------------|--|--|
| Multi-purpose        | ELASTOSIL®  | R 401/10 oH   | 13                        | 1.07  | 6.0  | 1200                                 | 21                                  | 28  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/20 oH   | 24                        | 1.11  | 8.5  | 870                                  | 26                                  | 30  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/30 S    | 28                        | 1.10  | 10.0   | 910                                  | 28                                  | 15  | C1                              | X                               | X                               | HB (0.75; 3mm)                                 | X       |             | Transparent  | Production of molded parts, e.g. seals, valves or spark plug boots                     |
|                      | ELASTOSIL®  | R 401/30 oH   | 35                        | 1.11  | 9.5  | 640                                  | 19                                  | 20  | E                               | x                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts, e.g. tubes, cables or profiles                           |
|                      | ELASTOSIL®  | R 401/40 S    | 41                        | 1.12  | 10.0   | 580                                  | 23                                  | 36  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/50 S    | 51                        | 1.15  | 11.0   | 520                                  | 23                                  | 34  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/55 S    | 57                        | 1.14  | 10.0   | 400                                  | 20                                  | 35  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/60 S    | 60                        | 1.15  | 11.0   | 440                                  | 24                                  | 31  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/60 KX S | 59                        | 1.18  | 11.0   | 460                                  | 25                                  | 25  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts, e.g. tubes, cables or profiles                           |
|                      | ELASTOSIL®  | R 401/70 S    | 70                        | 1.18  | 11.0   | 440                                  | 26                                  | 40  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/80 S    | 77                        | 1.20  | 10.0   | 440                                  | 28                                  | 60  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 401/90 oH   | 85                        | 1.22  | 7.9  | 270                                  | 22                                  | 38  | E                               | X                               | X                               | HB (0.75; 3mm)                                 |         | X           | Transparent  | Production of extruded parts (tubes, cables, profiles)                                 |
|                      | ELASTOSIL®  | R 510/60 S    | 60                        | 1.14  | 10.2   | 430                                  | 22                                  | 31  | E                               |                                 |                                 |  |         | X           | Translucent  | Production of silicone-insulated cables and wires                                      |
|                      | ELASTOSIL®  | R 510/70 S    | 69                        | 1.21  | 9.4  | 350                                  | 22                                  | 48  | E                               |                                 |                                 |  |         | X           | Translucent  | Production of silicone-insulated cables and wires                                      |
|                      | ELASTOSIL®  | R 402/65 oH   | 66                        | 1.17  | 11.0   | 430                                  | 24                                  | 29  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts, e.g. precision profiles and dimensionally accurate tubes |
|                      | ELASTOSIL®  | R 402/75 S    | 70                        | 1.19  | 9.3  | 550                                  | 34                                  | 70  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts, e.g. precision profiles and dimensionally accurate tubes |
| ELASTOSIL®           | R 416/70 mH | 70            | 1.18                      | 11.3  | 580  | 32                                   | 20                                  | C1  |                                 |                                 |                                 |  |         | Black, red  | Calendering and extrusion  |  |
| ELASTOSIL®           | R 760/70 mH | 70            | 1.17                      | 10.7  | 530  | 27                                   | 9                                   | C1  |                                 |                                 |                                 |  | X       | Black, red  | Calendering and extrusion, e.g. production of turbocharger hoses |  |
| High tear resistance | ELASTOSIL®  | R 420/30 oH   | 32                        | 1.10  | 8.0  | 630                                  | 24                                  | 28  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts with excellent tear resistance, e.g. tubes or profiles    |
|                      | ELASTOSIL®  | R 420/40 S    | 43                        | 1.12  | 9.0  | 630                                  | 34                                  | 34  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts with excellent tear resistance, e.g. tubes or profiles    |
|                      | ELASTOSIL®  | R 420/50 S    | 52                        | 1.15  | 10.0   | 600                                  | 39                                  | 31  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts with excellent tear resistance, e.g. tubes or profiles    |
|                      | ELASTOSIL®  | R 420/60 S    | 57                        | 1.17  | 10.0   | 580                                  | 42                                  | 34  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts with excellent tear resistance, e.g. tubes or profiles    |
| Low compression set  | ELASTOSIL®  | R 420/70 S    | 62                        | 1.19  | 9.0  | 650                                  | 48                                  | 59  | E                               | X                               | X                               |  |         | X           | Transparent  | Production of extruded parts with excellent tear resistance, e.g. tubes or profiles    |
|                      | ELASTOSIL®  | R 865/40 S    | 43                        | 1.10  | 7.2  | 450                                  | 14                                  | 10  | C6                              | X                               | X                               |  | X       |             | Translucent  | Production of molded parts, e.g. keypads   |
|                      | ELASTOSIL®  | R 865/50 S    | 51                        | 1.12  | 9.0  | 430                                  | 17                                  | 12  | C6                              | X                               | X                               |  | X       |             | Translucent  | Production of molded parts, e.g. keypads   |
|                      | ELASTOSIL®  | R 865/60 S    | 64                        | 1.17  | 9.3  | 320                                  | 17                                  | 9   | C6                              | X                               | X                               |  | X       |             | Translucent  | Production of molded parts, e.g. keypads   |
| ELASTOSIL®           | R 865/70 S  | 70            | 1.19                      | 9.6   | 320  | 18                                   | 9                                   | C6  | X                               | X                               |                                 | X  |         | Translucent | Production of molded parts, e.g. keypads                         |  |

These figures are only intended as a guide and should not be used in preparing specifications.

<sup>1</sup> BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).

<sup>2</sup> FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).

<sup>3</sup> Categories on request.

<sup>4</sup> Non-postcured

Please contact us for in-depth technical consulting to select the right product for your individual demands.

Please contact us if you are interested in products with specific characteristics or if you need products from our basic portfolio in other hardnesses.



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Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 Munich, Germany  
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PRODUCT OVERVIEW

## PEROXIDE-CURING SOLID SILICONE RUBBER

Media resistant · High rebound resilience · Low temperature resistance ·  
High heat resistance · Ceramifying · Electrically conductive · Flame  
retardant · Low rebound resilience · Superheated steam resistance ·  
Magnetisable

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| Main characteristics         | Brand      | Product               | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Data obtained with curing agent | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Molding | Extrusion | Appearance  | Typical applications   |
|------------------------------|------------|-----------------------|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|---------------------------------|---------|-----------|-------------|--|
| Media resistant              | ELASTOSIL® | R 700/40 <sup>4</sup> | 40                        |   | 7.3  | 470                                  | 14.2                                | 11  | C1                              | X                               | X                               | X       |           | Translucent | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 700/80 <sup>4</sup> | 83                        | 1.39  | 7.7  | 200                                  | 16.3                                | 17  | C1                              | X                               | X                               |         | X         | Beige       | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 701/40              | 40                        | 1.10  | 8.0  | 460                                  | 14                                  | 7   | C1                              |                                 |                                 | X       |           | Opaque      | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 701/50              | 51                        | 1.16  | 7.8  | 470                                  | 20                                  | 7   | C1                              |                                 |                                 |         | X         | Beige       | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 701/60              | 59                        | 1.24  | 7.6  | 340                                  | 16                                  | 6   | C1                              |                                 |                                 |         | X         | Beige       | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 701/70              | 71                        | 1.30  | 7.8  | 280                                  | 17                                  | 9   | C1                              |                                 |                                 |         | X         | Beige       | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 701/80              | 81                        | 1.39  | 7.6  | 200                                  | 16                                  | 17  | C1                              |                                 |                                 |         | X         | Beige       | Production of industrial molded parts, e.g. rollers or seals and gaskets in contact with oil   |
|                              | ELASTOSIL® | R 780/80 oH           | 80                        | 1.72  | 6.0  | 70                                   | 8                                   | 15  | E                               | X                               | X                               |         | X         | Beige       | Masterbatch for compounding inert fillers  |
|                              | ELASTOSIL® | R 861/60 S            | 57                        | 1.16  | 8.5  | 370                                  | 18                                  | 28  | E                               | X                               | X                               |         | X         | Translucent | Production of extruded or molded parts, e.g. seals with low compression set  |
|                              | ELASTOSIL® | R 861/70 S            | 69                        | 1.19  | 8.8  | 320                                  | 17                                  | 30  | E                               | X                               | X                               |         | X         | Translucent | Production of extruded or molded parts, e.g. seals with low compression set  |
| High rebound resilience      | ELASTOSIL® | R 101/25 oH           | 23                        | 1.07  | 7.0  | 890                                  | 14                                  | 13  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts, e.g. vibration damping elements  |
|                              | ELASTOSIL® | R 101/35 oH           | 35                        | 1.09  | 8.0  | 700                                  | 16                                  | 10  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts, e.g. damping elements for engine mounts  |
|                              | ELASTOSIL® | R 101/45 oH           | 47                        | 1.10  | 8.0  | 540                                  | 18                                  | 10  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts   |
|                              | ELASTOSIL® | R 101/65 oH           | 65                        | 1.13  | 8.0  | 200                                  | 16                                  | 10  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts with excellent durability in long-term stress applications, e.g. vibration damping elements for engine mounts |
| Low temperature resistance   | ELASTOSIL® | R 490/55 oH           | 50                        | 1.17  | 11.0   | 500                                  | 33                                  | 39  | E                               | X                               | X                               |         | X         | Transparent | Production of extruded parts with very good low temperature resistance   |
| High heat resistance         | ELASTOSIL® | R 750/40 oH           | 40                        | 1.12  | 10.5   | 600                                  | 23                                  | 26  | E                               |                                 |                                 |         | X         | Transparent | Production of extruded parts with good resistance to dry heat  |
|                              | ELASTOSIL® | R 750/50 oH           | 46                        | 1.14  | 10.8   | 530                                  | 28                                  | 20  | E                               |                                 |                                 |         | X         | Transparent | Production of extruded parts with good resistance to dry heat  |
|                              | ELASTOSIL® | R 756/40 oH           | 41                        | 1.10  | 8.0  | 570                                  | 18                                  | 8   | C1                              | X                               | X                               | X       |           | Transparent | Optimized for high temperatures  |
|                              | ELASTOSIL® | R 756/50 oH           | 51                        | 1.13  | 9.5  | 530                                  | 19                                  | 10  | C1                              | X                               | X                               | X       | X         | Transparent | Optimized for high temperatures  |
|                              | ELASTOSIL® | R 756/60 oH           | 58                        | 1.15  | 10.0   | 420                                  | 21                                  | 12  | C1                              | X                               | X                               | X       | X         | Transparent | Optimized for high temperatures  |
|                              | ELASTOSIL® | R 756/70 oH           | 67                        | 1.18  | 10.0   | 390                                  | 23                                  | 11  | C1                              | X                               | X                               | X       | X         | Transparent | Optimized for high temperatures  |
| Ceramifying, ash-stable      | ELASTOSIL® | R 502/75 oH           | 72                        | 1.28  | 8.7  | 400                                  | 25                                  | 56  | C6                              |                                 |                                 |         | X         | White       | Production of safety cables and wires that assure circuit integrity in case of fire  |
|                              | ELASTOSIL® | R 512/70 oH           | 70                        | 1.37  | 6.5  | 314                                  | 18                                  | 41  | E                               |                                 |                                 |         | X         | White       | Production of safety cables and wires that assure circuit integrity in case of fire  |
| Electrically conductive      | ELASTOSIL® | R 570/50 oH           | 52                        | 1.11  | 7.9  | 370                                  | 14                                  | 37  | C1                              |                                 |                                 | X       |           | Black       | Production of electrically conductive molded parts   |
|                              | ELASTOSIL® | R 570/60 oH           | 62                        | 1.13  | 7.4  | 230                                  | 12                                  | 24  | C1                              |                                 |                                 | X       |           | Black       | Production of electrically conductive molded parts   |
|                              | ELASTOSIL® | R 570/70 oH           | 70                        | 1.16  | 6.3  | 165                                  | 13                                  | 29  | C6                              |                                 |                                 | X       |           | Black       | Production of electrically conductive molded parts   |
| Flame retardant              | ELASTOSIL® | R 501/75 oH           | 68                        | 1.23  | 7.3  | 470                                  | 34                                  | 93  | E                               |                                 |                                 |         | X         | Translucent | Production of flame-retardant cable insulations for household, automotive, railway, marine and aerospace applications                    |
|                              | ELASTOSIL® | R 770/50 oH           | 46                        | 1.14  | 9.0  | 700                                  | 38                                  | 16  | E                               |                                 |                                 |         | X         | White       | Applications with high demands on fire safety, e.g. door profiles in trains or floor profiles in airplanes                               |
|                              | ELASTOSIL® | R 770/60 oH           | 63                        | 1.49  | 4.0  | 400                                  | 14                                  | 38  | E                               |                                 |                                 |         | X         | White       | Applications with high demands on fire safety, e.g. door profiles in trains or floor profiles in airplanes                               |
|                              | ELASTOSIL® | R 770/75 oH           | 72                        | 1.55  | 3.8  | 320                                  | 15                                  | 39  | E                               |                                 |                                 |         | X         | White       | Applications with high demands on fire safety, e.g. door profiles in trains or floor profiles in airplanes                               |
| Low rebound resilience       | ELASTOSIL® | R 752/50 oH           | 50                        | 1.18  | 9.9  | 770                                  | 32                                  | 38  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts with good damping properties, e.g. vibration damping elements in the automotive industry                      |
|                              | ELASTOSIL® | R 752/70 oH           | 70                        | 1.22  | 8.5  | 460                                  | 22                                  | 19  | C1                              | X                               | X                               | X       |           | Translucent | Production of molded parts with good damping properties, e.g. vibration damping elements in the automotive industry                      |
| Superheated steam resistance | ELASTOSIL® | R 755/60 oH           | 60                        | 1.18  | 7.7  | 330                                  | 17                                  | 16  | C1                              |                                 |                                 | X       |           | Opaque      | Production of molded parts with good resistance to water vapor   |
| Magnetisable                 | ELASTOSIL® | R 781/80              | 83                        | 2.33  | 3.3  | 50                                   | 18                                  | 64  | E                               | X                               | X                               | X       | X         | Black       | Production of magnetic molding articles  |

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1 BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).

2 FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).

3 Categories on request.

4 Non-postcured

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Hanns-Seidel-Platz 4  
81737 Munich, Germany  
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PRODUCT OVERVIEW

## LIQUID SILICONE RUBBER

Multi-purpose · High tear resistance · Media resistance ·  
Heat resistance · Low coefficient of friction

6709E e/10.22 replacee 6709E e/05.21

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| Main characteristics           | Brand      | Product       | Further characteristics   | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Flame retardancy – UL 94 Listing | Cure system        | Appearance  | Typical applications   |
|--------------------------------|------------|---------------|---|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|----------------------------------|--------------------|-------------|--|
| Multi purpose                  | ELASTOSIL® | LR 3003/03    |   | 3                         | 1.01  | 1.3  | 700                                  | 3                                   | 16  |                                 |                                 |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/05    |   | 6                         | 1.05  | 2.8  | 700                                  | 7                                   | 16  |                                 |                                 |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/10 TR |   | 12                        | 1.07  | 4.2  | 760                                  | 13                                  | 13  |                                 |                                 | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/20 TR |   | 22                        | 1.09  | 8.3  | 870                                  | 24                                  | 17  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/25    |   | 25                        | 1.09  | 8.8  | 860                                  | 25                                  | 15  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/30    |   | 30                        | 1.09  | 7.0  | 610                                  | 21                                  | 10  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/40    |   | 40                        | 1.13  | 10.0   | 610                                  | 30                                  | 11  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/50    |   | 50                        | 1.13  | 10.3   | 490                                  | 26                                  | 13  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/60    |   | 60                        | 1.13  | 9.8  | 340                                  | 27                                  | 16  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/70    |   | 70                        | 1.13  | 9.3  | 290                                  | 20                                  | 16  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/80    |   | 77                        | 1.15  | 8.3  | 240                                  | 12                                  | 17  | X                               | X                               | HB (0.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/85    |   | 85                        | 1.14  | 6.5  | 130                                  | 11                                  | 17  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
|                                | ELASTOSIL® | LR 3003/90    |   | 90                        | 1.13  | 7.0  | 50                                   | 8                                   | 16  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, valves, gaskets, membranes, O-rings  |
| Fast cure                      | ELASTOSIL® | LR 3004/30    |   | 30                        | 1.10  | 7.1  | 620                                  | 24                                  | 10  | X                               | X                               | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3004/40    |   | 40                        | 1.13  | 9.1  | 610                                  | 29                                  | 10  | X                               | X                               | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3004/50    |   | 50                        | 1.13  | 10.0   | 480                                  | 27                                  | 15  | X                               | X                               | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3004/60    |   | 60                        | 1.13  | 9.6  | 380                                  | 25                                  | 18  | X                               | X                               | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3004/70    |   | 70                        | 1.14  | 9.9  | 310                                  | 20                                  | 11  | X                               | X                               | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
| Low comp. set npc <sup>4</sup> | ELASTOSIL® | LR 3005/30    | Fast cure   | 30                        | 1.10  | 6.0  | 610                                  | 16                                  | 13  |                                 |                                 | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of technical molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3005/40    | Fast cure   | 40                        | 1.13  | 7.8  | 600                                  | 22                                  | 16  |                                 |                                 | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of technical molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3005/50    | Fast cure   | 50                        | 1.12  | 8.7  | 500                                  | 24                                  | 15  |                                 |                                 | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of technical molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3005/60    | Fast cure   | 60                        | 1.13  | 9.5  | 380                                  | 28                                  | 15  |                                 |                                 | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of technical molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3005/70    | Fast cure   | 70                        | 1.14  | 8.5  | 330                                  | 23                                  | 19  |                                 |                                 | HB (1.5 mm)                      | Platinum (1:1 A/B) | Transparent | Production of technical molded parts, e.g. seals, O-rings, valves, gaskets, membranes  |
|                                | ELASTOSIL® | LR 3040/30    | Fast cure, high tear  | 30                        | 1.12  | 9.8  | 740                                  | 35                                  | 14  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Economic production (fast cure) of molded parts, e.g. baby-bottle or pacifier teats  |
| High tear resistance           | ELASTOSIL® | LR 3040/40    | Fast cure, high tear  | 40                        | 1.12  | 9.0  | 600                                  | 36                                  | 11  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Economic production (fast cure) of molded parts, e.g. baby-bottle or pacifier teats  |
|                                | ELASTOSIL® | LR 3040/50    | Fast cure, high tear  | 50                        | 1.12  | 9.2  | 500                                  | 40                                  | 11  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Economic production (fast cure) of molded parts, e.g. baby-bottle or pacifier teats  |
|                                | ELASTOSIL® | LR 3040/60    | Fast cure, high tear  | 60                        | 1.14  | 9.4  | 380                                  | 38                                  | 15  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Economic production (fast cure) of molded parts  |
|                                | ELASTOSIL® | LR 3040/70    | Fast cure, high tear  | 70                        | 1.14  | 8.0  | 370                                  | 40                                  | 15  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Economic production (fast cure) of molded parts  |
|                                | ELASTOSIL® | LR 3043/40    |   | 40                        | 1.14  | 9.8  | 680                                  | 36                                  | 25  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. baby-bottle nipples or pacifiers  |
|                                | ELASTOSIL® | LR 3043/50    |   | 50                        | 1.13  | 9.4  | 460                                  | 46                                  | 25  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts, e.g. baby-bottle nipples or pacifiers  |
|                                | ELASTOSIL® | LR 3043/60    |   | 60                        | 1.13  | 9.2  | 390                                  | 47                                  | 20  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts   |
|                                | ELASTOSIL® | LR 3043/70    |   | 70                        | 1.13  | 9.5  | 280                                  | 21                                  | 22  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Production of molded parts   |
|                                | ELASTOSIL® | LR 3015/50    | Oil resistant, less abrasive, low comp. set, npc <sup>3</sup>                                 | 50                        | 1.34  | 5.4  | 470                                  | 12                                  | 18  |                                 |                                 |                                  | Platinum (1:1 A/B) | Beige       | Technical parts, e.g. valves, seals and O-rings in contact with oil  |
|                                | ELASTOSIL® | LR 3015/70    | Oil resistant, less abrasive, low comp. set, npc <sup>3</sup>                                 | 70                        | 1.33  | 6.1  | 280                                  | 15                                  | 16  |                                 |                                 |                                  | Platinum (1:1 A/B) | Beige       | Technical parts, e.g. valves, seals and O-rings in contact with oil  |
| Media resistance               | ELASTOSIL® | LR 3016/65    | Oil resistant, non abrasive, low comp. set, npc <sup>3</sup> , improved mechanical properties | 65                        | 1.17  | 8.7  | 350                                  | 26                                  | 15  |                                 |                                 |                                  | Platinum (1:1 A/B) | White       | Technical parts, e.g. valves, seals and O-rings in contact with oil  |
|                                | ELASTOSIL® | LR 3020/60    | Steam resistant   | 60                        | 1.13  | 6.1  | 280                                  | 13                                  | 10  | X                               | X                               |                                  | Platinum (1:1 A/B) | Opaque      | Production of molded parts, such as gaskets, valves, membranes and seals   |
|                                | ELASTOSIL® | LR 3022/60    | Coolant resistant   | 61                        | 1.11  | 6.1  | 270                                  | 14                                  | 7   |                                 |                                 |                                  | Platinum (1:1 A/B) | Opaque      | Technical parts, e.g. valves, seals and O-rings in contact with coolant  |
|                                | ELASTOSIL® | LR 3023/60    | Coolant resistant, low comp. set, npc <sup>3</sup>  | 60                        | 1.12  | 5.9  | 300                                  | 15                                  | 11  |                                 |                                 |                                  | Platinum (1:1 A/B) | Opaque      | Technical parts, e.g. valves, seals and O-rings in contact with coolant  |
|                                | ELASTOSIL® | LR 3025/40    | Fuel cell gaskets   | 40                        | 1.11  | 7.0  | 500                                  | 31                                  | 11  |                                 |                                 |                                  |                    | Transparent |  |
|                                | ELASTOSIL® | LR 3092/65    | Low comp. set   | 66                        | 1.15  | 10.0   | 330                                  | 25                                  | 10  |                                 |                                 | HB (0.5 mm)                      | Platinum (1:1 A/B) | Black       | Post-cured technical parts in contact with high temperatures   |
|                                | ELASTOSIL® | LR 3093/65    | Ultra low comp. set   | 63                        | 1.12  | 8.5  | 330                                  | 24                                  | 7   |                                 |                                 |                                  | Platinum (1:1 A/B) | Black       | Post-cured technical parts in contact with high temperatures   |
|                                | ELASTOSIL® | LR 3094/60    | Low comp. set, npc <sup>3</sup>   | 60                        | 1.14  | 10.0   | 400                                  | 28                                  | 18  |                                 |                                 |                                  | Platinum (1:1 A/B) | Black       | Non-post-cured technical parts in contact with high temperatures   |
|                                | ELASTOSIL® | LR 3065/30    | Low comp. set, npc <sup>3</sup> , technical appl.   | 30                        | 1.12  | 7.5  |                                      | 24                                  | 17  |                                 |                                 | HB (0.5; 1.5; 3 mm)              | Platinum (1:1 A/B) | Transparent | Technical molded parts with low coefficient of friction, e.g. weather packs, mat seals, connector pads for the automotive industry |
|                                | ELASTOSIL® | LR 3065/50    | Low comp. set, npc <sup>3</sup> , technical appl.   | 50                        | 1.12  | 9.0  | 460                                  | 31                                  | 15  |                                 |                                 | HB (0.5; 1.5; 3 mm)              | Platinum (1:1 A/B) | Transparent | Technical molded parts with low coefficient of friction, e.g. weather packs, mat seals, connector pads for the automotive industry |
| Low coefficient of friction    | ELASTOSIL® | LR 3066/30    | Food contact  | 30                        | 1.10  | 7.8  | 660                                  | 31                                  | 12  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |
|                                | ELASTOSIL® | LR 3066/40    | Food contact  | 40                        | 1.12  | 9.3  | 580                                  | 32                                  | 12  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |
|                                | ELASTOSIL® | LR 3066/50    | Food contact  | 50                        | 1.12  | 8.9  | 440                                  | 31                                  | 16  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |
|                                | ELASTOSIL® | LR 3066/60    | Food contact  | 60                        | 1.13  | 9.3  | 330                                  | 24                                  | 19  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |
|                                | ELASTOSIL® | LR 3066/70    | Food contact  | 70                        | 1.13  | 8.3  | 270                                  | 18                                  | 17  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |
|                                | ELASTOSIL® | LR 3066/80    | Food contact  | 80                        | 1.13  | 6.9  | 180                                  | 11                                  | 13  | X                               | X                               |                                  | Platinum (1:1 A/B) | Transparent | Molded parts with low coefficient of friction for food contact applications  |

These figures are only intended as a guide and should not be used in preparing specifications.  
A tighter specification regarding Sh-A hardness can be possible for selected products on demand (+/-1, +/-2, +/-3).

<sup>1</sup> BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).  
<sup>2</sup> FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).  
<sup>3</sup> Non-postcured.

Please contact us for in-depth technical consulting to select the right product for your individual demands.  
Please contact us if you are interested in products with specific characteristics or if you need products from our basic portfolio in other hardnesses.



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PRODUCT OVERVIEW

## LIQUID SILICONE RUBBER

Self-adhesion · Oil-bleeding · Low viscosity ·  
Electrically conductive · High transparency · Flame retardant ·  
Low volatile content without post-curing

6709F e/10.22 replaces 6709F-015.21

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.



| Main characteristics    | Brand      | Product  | Further characteristics                                       | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Flame retardancy – UL 94 Listing | Cure system                  | Appearance  | Typical applications  |   |
|-------------------------|------------|--|---|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|----------------------------------|------------------------------|---|---|---|
| Self-adhesion           | ELASTOSIL® | LR 3070/20   | Adhesion on PA, PBT, PET, technical appl.                     | 20                        | 1.09  | 6.6  | 820                                  | 15                                  | 43 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET), e.g. cable connectors                               |   |
|                         | ELASTOSIL® | LR 3070/30   | Adhesion on PA, PBT, PET, technical appl.                     | 30                        | 1.10  | 7.7  | 730                                  | 18                                  | 38 <sup>4</sup>                                 |                                 |                                 | HB (0.75 mm)                     | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET), e.g. cable connectors                               |   |
|                         | ELASTOSIL® | LR 3070/40   | Adhesion on PA, PBT, PET, technical appl.                     | 40                        | 1.12  | 8.7  | 670                                  | 24                                  | 37 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET), e.g. cable connectors                               |   |
|                         | ELASTOSIL® | LR 3070/50   | Adhesion on PA, PBT, PET, technical appl.                     | 50                        | 1.11  | 9.2  | 490                                  | 20                                  | 22 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET), e.g. cable connectors                               |   |
|                         | ELASTOSIL® | LR 3070/60   | Adhesion on PA, PBT, PET, technical appl.                     | 60                        | 1.12  | 9.1  | 460                                  | 23                                  | 21 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET), e.g. cable connectors                               |   |
|                         | ELASTOSIL® | LR 3071/30   | Food contact  |                           | 30  | 1.09   | 7.9                                  | 780                                 | 20  | 40 <sup>4</sup>                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET) for food contact   |
|                         | ELASTOSIL® | LR 3071/40   | Food contact  |                           | 40  | 1.11   | 8.5                                  | 660                                 | 22  | 40 <sup>4</sup>                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET) for food contact   |
|                         | ELASTOSIL® | LR 3071/50   | Food contact  |                           | 50  | 1.11   | 8.2                                  | 560                                 | 25  | 50 <sup>4</sup>                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET) for food contact   |
|                         | ELASTOSIL® | LR 3071/60   | Food contact  |                           | 60  | 1.12   | 9.1                                  | 520                                 | 27  | 53 <sup>4</sup>                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts (silicone on PA, PBT, PET) for food contact   |
|                         | ELASTOSIL® | LR 3072/30   | Oil-bleeding  |                           | 30  | 1.11   | 7.4                                  | 710                                 | 17  | 27 <sup>4</sup>                 |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Hard-soft composite parts with oil-bleeding properties, e.g. mat seals or weather packs for the automotive industry |
|                         | ELASTOSIL® | LR 3072/40   | Oil-bleeding  |                           | 40  | 1.12   | 8.8                                  | 620                                 | 21  | 21 <sup>4</sup>                 |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Hard-soft composite parts with oil-bleeding properties, e.g. mat seals or weather packs for the automotive industry |
|                         | ELASTOSIL® | LR 3072/50   | Oil-bleeding  |                           | 50  | 1.12   | 8.6                                  | 510                                 | 23  | 12 <sup>4</sup>                 |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Hard-soft composite parts with oil-bleeding properties, e.g. seals or weather packs for the automotive industry     |
|                         | ELASTOSIL® | LR 3074/60   | Coolant resistant   |                           | 60  | 1.13   | 6.8                                  | 360                                 | 14  | 19 <sup>4</sup>                 |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Hard-soft composite parts with coolant-resistant properties, e.g. seals for the automotive industry                 |
|                         | ELASTOSIL® | LR 3076/70   | Oil resistant, less abrasive, low comp. set, npc <sup>3</sup> |                           | 70  | 1.31   | 4.7                                  | 230                                 | 14  | 14 <sup>4</sup>                 |                                 |                                  |                              | Platinum (1:1 A/B)  | Beige   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/20   | Adhesion on PC  |                           | 20  | 1.09   | 5.3                                  | 680                                 | 13  | 65                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/30   | Adhesion on PC  |                           | 30  | 1.09   | 4.9                                  | 620                                 | 12  | 48                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/40   | Adhesion on PC  |                           | 40  | 1.13   | 8.5                                  | 590                                 | 24  | 50                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/50   | Adhesion on PC  |                           | 50  | 1.12   | 8.7                                  | 490                                 | 23  | 36                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/60   | Adhesion on PC  |                           | 60  | 1.14   | 8.2                                  | 430                                 | 30  | 40                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3078/70   | Adhesion on PC  |                           | 70  | 1.15   | 7.7                                  | 350                                 | 25  | 34                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with oil-resistant properties, e.g. seals for the automotive industry                     |
|                         | ELASTOSIL® | LR 3170/40   | Flame retardant, UL 94, V0 black                              |                           | 45  | 1.12   | 9.2                                  | 590                                 | 23  |                                 |                                 |                                  | V-0 (3 mm); HB (0.5; 0.8 mm) | Platinum (1:1 A/B)  | Transparent   | Hard-soft composites with flame-retardant properties  |
|                         | ELASTOSIL® | LR 3271/45   | Hot water resistant   |                           | 45  | 1.14   | 6.3                                  | 540                                 | 34  | 45 <sup>4</sup>                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts (silicone on polyesters) for food contact and sanitary goods                              |
|                         | ELASTOSIL® | LR 3671/30   | Low coefficient of friction, food contact                     |                           | 30  | 1.12   | 8.9                                  | 770                                 | 29  |                                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with low coefficient of friction  |
|                         | ELASTOSIL® | LR 3671/40   | Low coefficient of friction, food contact                     |                           | 40  | 1.12   | 8.8                                  | 680                                 | 26  |                                 | X                               | X                                |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with low coefficient of friction  |
|                         | ELASTOSIL® | LR 3671/50   | Low coefficient of friction, food contact                     |                           | 50  | 1.13   | 8.2                                  | 610                                 | 28  | 61                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Transparent   | Hard-soft composite parts with low coefficient of friction  |
| ELASTOSIL®              | LR 3675/30 | Low coefficient of friction                                |   | 30                        | 1.12  | 8.0  | 760                                  | 25                                  | 14 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts with low coefficient of friction  |   |
| ELASTOSIL®              | LR 3675/50 | Low coefficient of friction                                |   | 50                        | 1.12  | 7.8  | 410                                  | 33                                  | 12 <sup>4</sup>                                 |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Hard-soft composite parts with low coefficient of friction  |   |
| Oil-bleeding            | ELASTOSIL® | LR 3841/50   | Low comp. set, npc <sup>3</sup>                               | 50                        | 1.13  | 9.0  | 490                                  | 30                                  | 13  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 1.5 % oil), e.g. connector seals, single wire seals                     |   |
|                         | ELASTOSIL® | LR 3834/50 Ultra   | Low comp. set, npc <sup>3</sup>                               | 50                        | 1.12  | 7.5  | 420                                  | 20                                  | 9   |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 4 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3842/40   | Low comp. set, npc <sup>3</sup>                               | 40                        | 1.12  | 8.0  | 610                                  | 25                                  | 13  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 1.5 % oil), e.g. connector seals, single wire seals                     |   |
|                         | ELASTOSIL® | LR 3842/50   | Low comp. set, npc <sup>3</sup>                               | 50                        | 1.13  | 8.5  | 460                                  | 37                                  | 12  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 2 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3842/60   | Low comp. set, npc <sup>3</sup>                               | 60                        | 1.14  | 9.2  | 420                                  | 38                                  | 13  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 2 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3842/70   | Low comp. set, npc <sup>3</sup>                               | 68                        | 1.14  | 8.5  | 380                                  | 28                                  | 16  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 2 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3843/30   | Low comp. set, npc <sup>3</sup>                               | 30                        | 1.12  | 8.0  | 680                                  | 22                                  | 16  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 3 % oil), e.g. mat seals, single wire seals                             |   |
|                         | ELASTOSIL® | LR 3844/30   | Low comp. set, npc <sup>3</sup>                               | 30                        | 1.10  | 7.2  | 700                                  | 22                                  | 17  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 4 % oil), e.g. mat seals, single wire seals                             |   |
|                         | ELASTOSIL® | LR 3844/40   | Low comp. set, npc <sup>3</sup>                               | 42                        | 1.13  | 8.5  | 580                                  | 24                                  | 15  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 4 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3844/50   | Low comp. set, npc <sup>3</sup>                               | 50                        | 1.13  | 8.5  | 500                                  | 36                                  | 14  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 4 % oil), e.g. connector seals, single wire seals                       |   |
|                         | ELASTOSIL® | LR 3846/20   | Low comp. set, npc <sup>3</sup>                               | 21                        | 1.09  | 6.1  | 800                                  | 16                                  | 16  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 6 % oil), e.g. mat seals, connector pads                                |   |
|                         | ELASTOSIL® | LR 3846/30   | Low comp. set, npc <sup>3</sup>                               | 30                        | 1.11  | 7.0  | 750                                  | 19                                  | 15  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 6 % oil), e.g. mat seals, connector pads                                |   |
|                         | ELASTOSIL® | LR 3851/50   | Low comp. set, npc <sup>3</sup> , very good cut resistance    |                           | 48  | 1.13   | 9.5                                  | 530                                 | 36  | 15                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Oil-bleeding molded parts (around 1.8 % oil), e.g. connector seals, single wire seals                               |
|                         | ELASTOSIL® | LR 3852/50   | Low comp. set, npc <sup>3</sup> , very good cut resistance    |                           | 47  | 1.13   | 9.0                                  | 560                                 | 40  | 15                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Oil-bleeding molded parts (around 2.5 % oil), e.g. connector seals, single wire seals                               |
|                         | ELASTOSIL® | LR 3856/20   | Low comp. set, npc <sup>3</sup> , very good cut resistance    |                           | 21  | 1.08   | 6.2                                  | 850                                 | 16  | 18                              |                                 |                                  |                              | Platinum (1:1 A/B)  | Opaque  | Oil-bleeding molded parts (around 6 % oil), e.g. mat seals, connector seals with excellent cut resistance           |
| ELASTOSIL®              | LR 3856/30 | Low comp. set, npc <sup>3</sup> , very good cut resistance |   | 32                        | 1.09  | 6.5  | 650                                  | 22                                  | 14  |                                 |                                 |                                  | Platinum (1:1 A/B)           | Opaque  | Oil-bleeding molded parts (around 6 % oil), e.g. mat seals, connector seals with excellent cut resistance |   |
| Low viscosity           | ELASTOSIL® | LR 3153  |   | 60                        | 1.08  | 7.4  | 170                                  | 14                                  |   |                                 |                                 |                                  | Platinum (1:1 A/B)           | Transparent   | Coating of textile braided cables   |   |
| Electrically conductive | ELASTOSIL® | LR 3162  |   | 54                        | 1.12  | 5.6  | 340                                  | 14                                  |   |                                 |                                 |                                  | Platinum (1:1 A/B)           | Black   | Fabrication of electrically conductive molded parts, e.g. copy rollers                                    |   |
| High transparency       | LUMISIL®   | LR 7601/50   |   | 50                        | 1.03  | 6.6  | 330                                  | 15                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Highly transparent  | Molded parts with excellent transparency  |   |
|                         | LUMISIL®   | LR 7601/60   |   | 60                        | 1.04  | 7.3  | 290                                  | 15                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Highly transparent  | Molded parts with excellent transparency  |   |
|                         | LUMISIL®   | LR 7601/70   |   | 70                        | 1.05  | 10.0   | 90                                   | 10                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Highly transparent  | Molded parts with excellent transparency  |   |
|                         | LUMISIL®   | LR 7601/80   |   | 78                        | 1.05  | 9.5  | 70                                   | 9                                   |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Highly transparent  | Molded parts with excellent transparency  |   |
| Flame retardant         | ELASTOSIL® | LR 3001/55 FR  |   | 55                        | 1.36  | 6.3  | 300                                  | 15                                  | 13  |                                 |                                 | V-0 (0.75 and 3 mm)              | Platinum (1:1 A/B)           | Dark gray (similar to RAL 7015)                                   | Flame retardant molded parts, e.g. anode caps   |   |
|                         | ELASTOSIL® | LR 3011/50 FR  | Low inflammability, short curing times                        | 50                        | 1.13  | 10.0   | 510                                  | 28                                  | 13  |                                 |                                 | V-0 (0.75 and 3 mm)              | Platinum (1:1 A/B)           | Dark gray/black   | Lamp holder, seals in electronic equipment, low inflammability components                                 |   |
| Low volatile            | ELASTOSIL® | LR 5040/20   | Non post-cured for sensitive applications                     | 20                        | 1.12  | 7.9  | 940                                  | 31                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Molded parts for baby care, food contact and medical applications   |   |
|                         | ELASTOSIL® | LR 5040/30   | Non post-cured for sensitive applications                     | 30                        | 1.12  | 8.6  | 860                                  | 32                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Economic manufacturing without post cure of molded parts, e.g. baby bottle teats and pacifiers            |   |
|                         | ELASTOSIL® | LR 5040/40   | Non post-cured for sensitive applications                     | 40                        | 1.13  | 8.3  | 580                                  | 37                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Molded parts for baby care, food contact and medical applications   |   |
|                         | ELASTOSIL® | LR 5040/45   | Non post-cured for sensitive applications                     | 45                        | 1.12  | 9.0  | 560                                  | 41                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Molded parts for baby care, food contact and medical applications   |   |
|                         | ELASTOSIL® | LR 5040/50   | Non post-cured for sensitive applications                     | 50                        | 1.13  | 9.1  | 490                                  | 54                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Molded parts for baby care, food contact and medical applications   |   |
|                         | ELASTOSIL® | LR 5040/60   | Non post-cured for sensitive applications                     | 60                        | 1.13  | 9.0  | 400                                  | 50                                  |   | X                               | X                               |                                  | Platinum (1:1 A/B)           | Slightly bluish   | Molded parts for baby care, food contact and medical applications   |   |
| ELASTOSIL®              | LR 5040/70 | Non post-cured for sensitive applications                  | 70  | 1.13                      | 9.5   | 370  | 33                                   |                                     | X   | X                               |                                 | Platinum (1:1 A/B)               | Slightly bluish              | Molded parts for baby care, food contact and medical applications |   |   |

These figures are only intended as a guide and should not be used in preparing specifications.

A tighter specification regarding Shore-A hardness can be possible for selected products on demand (+/-1, +/-2, +/-3).

<sup>1</sup> BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).

<sup>2</sup> FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).

<sup>3</sup> Non-postcured.

Please contact us for in-depth technical consulting to select the right product for your individual demands.

Please contact us if you are interested in products with specific characteristics or if you need products from our basic portfolio in other hardnesses.



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Wacker Chemie AG  
Hanns-Seidel-Platz 4  
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6709G e/09.22 replaces 6709G e/05.21

PRODUCT OVERVIEW

## ADDITION CURING SOLID SILICONE RUBBER

Multi-purpose · High tear resistance · Low compression set ·  
High elasticity · Low coefficient of friction · Self-adhesion · High heat  
resistance · Oil bleeding · Electrically conductive

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

| Main characteristics        | Brand          | Product           | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Molding | Extrusion                          | Cure system                          | Appearance                             | Typical applications   |
|-----------------------------|----------------|-------------------|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|---------|------------------------------------|--------------------------------------|--|--|
| Multi-purpose               | ELASTOSIL®     | R plus 4001/20    | 20                        | 1.10  | 8.0  | 1300                                 | 34                                  | 30  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
|                             | ELASTOSIL®     | R plus 4001/30    | 30                        | 1.10  | 11.5   | 1090                                 | 43                                  | 37  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
|                             | ELASTOSIL®     | R plus 4001/40    | 40                        | 1.11  | 11.8   | 930                                  | 38                                  | 22  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
|                             | ELASTOSIL®     | R plus 4001/50    | 50                        | 1.13  | 11.5   | 830                                  | 35                                  | 20  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
|                             | ELASTOSIL®     | R plus 4001/60    | 60                        | 1.14  | 11.0   | 710                                  | 30                                  | 18  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds or spark plug boots                                |
|                             | ELASTOSIL®     | R plus 4001/70    | 70                        | 1.17  | 10.3   | 660                                  | 38                                  | 30  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds or spark plug boots                                |
|                             | ELASTOSIL®     | R plus 4001/80    | 82                        | 1.20  | 8.0  | 570                                  | 29                                  | 45  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
|                             | ELASTOSIL®     | R plus 4001/90    | 88                        | 1.20  | 6.2  | 225                                  | 21                                  | 43  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. seals, membranes, baking molds  |
| High tear resistance        | ELASTOSIL®     | R plus 4000/40    | 40                        | 1.12  | 9.3  | 860                                  | 46                                  | 35  | X                               | X                               | X       |                                    | Platinum (100:1.5 base + catalyst)   | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4000/50    | 50                        | 1.13  | 9.1  | 900                                  | 51                                  | 43  | X                               | X                               | X       |                                    | Platinum (100:1.5 base + catalyst)   | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4000/60    | 60                        | 1.16  |  | 750                                  | 50                                  | 23  | X                               | X                               | X       |                                    | Platinum (100:1.5 base + catalyst)   | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4000/70    | 70                        | 1.16  | 9.3  | 640                                  | 58                                  | 19  | X                               | X                               | X       |                                    | Platinum (100:1.5 base + catalyst)   | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4020/40    | 39                        | 1.12  | 13.0   | 1000                                 | 46                                  | 29  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4020/50    | 49                        | 1.13  | 11.0   | 810                                  | 45                                  | 26  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4020/60    | 59                        | 1.18  | 11.9   | 850                                  | 48                                  | 18  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4020/70    | 71                        | 1.20  | 10.4   | 660                                  | 51                                  | 22  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. baby-bottle teats or pacifiers  |
|                             | ELASTOSIL®     | R plus 4303/60    | 60                        | 1.16  | 9.6  | 650                                  | 38                                  | 12  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes for contact with portable water or profiles                               |
|                             | ELASTOSIL®     | R plus 4303/70    | 70                        | 1.18  | 9.0  | 600                                  | 37                                  | 16  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes for contact with portable water or profiles                               |
|                             | ELASTOSIL®     | R plus 4303/80    | 80                        | 1.19  | 7.7  | 300                                  | 20                                  | 16  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes for contact with portable water or profiles                               |
|                             | ELASTOSIL®     | R plus 4305/30    | 30                        | 1.11  | 11.8   | 1100                                 | 43                                  | 8   | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes or profiles   |
|                             | ELASTOSIL®     | R plus 4305/40    | 40                        | 1.12  | 9.8  | 830                                  | 27                                  | 7   | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes or profiles   |
|                             | ELASTOSIL®     | R plus 4305/50    | 50                        | 1.14  | 8.8  | 770                                  | 35                                  | 7   | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes or profiles   |
|                             | ELASTOSIL®     | R plus 4305/60 S  | 57                        | 1.17  | 9.9  | 630                                  | 38                                  | 13  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes or profiles   |
|                             | ELASTOSIL®     | R plus 4305/70    | 70                        | 1.18  | 9.1  | 600                                  | 39                                  | 14  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Transparent                            | Extruded parts, e.g. tubes or profiles   |
| ELASTOSIL®                  | R plus 4305/80 | 80                | 1.19                      | 7.8   | 310  | 21                                   | 17                                  | X   | X                               |                                 | X       | Platinum (100:1.5 base + catalyst) | Transparent                          | Extruded parts, e.g. tubes or profiles |  |
| ELASTOSIL®                  | R plus 4305/90 | 90                | 1.20                      | 6.4   | 150  | 17                                   | 30                                  | X   | X                               |                                 | X       | Platinum (100:1.5 base + catalyst) | Transparent                          | Extruded parts, e.g. tubes or profiles |  |
| Low compression set         | ELASTOSIL®     | R plus 4060/50    | 50                        | 1.15  | 8.0  | 500                                  | 25                                  | 9   | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. gaskets   |
|                             | ELASTOSIL®     | R plus 4060/60    | 64                        | 1.15  | 7.5  | 310                                  | 20                                  | 16  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts, e.g. gaskets   |
|                             | ELASTOSIL®     | R plus 4061/60    | 60                        | 1.15  | 9.5  | 520                                  | 32                                  | 13  |                                 |                                 | X       |                                    | Platinum (1 component, ready to use) | Black                                  | Molded parts, e.g. spark plug boots  |
| High elasticity             | ELASTOSIL®     | R plus 4360/60    | 60                        | 1.15  | 8.4  | 380                                  | 18                                  | 10  | X                               | X                               |         | X                                  | Platinum (100:1.3 base + catalyst)   |  | Extruded parts, e.g. profiles with low compression set   |
| Low coefficient of friction | ELASTOSIL®     | R plus 4066/60    | 60                        | 1.15  | 8.0  | 620                                  | 42                                  | 27  | X                               | X                               | X       |                                    | Platinum (1 component, ready to use) | Transparent                            | Molded parts with low coefficient of friction, e.g. seals  |
|                             | ELASTOSIL®     | R plus 4366/60    | 60                        | 1.15  | 7.6  | 550                                  | 41                                  | 20  | X                               | X                               |         | X                                  | Platinum (100:2 base + catalyst)     | Transparent                            | Extruded parts, e.g. profiles with low compression set, special tubes or flat seals                  |
|                             | ELASTOSIL®     | R plus 4361/60    | 60                        | 1.15  | 9.5  | 520                                  | 32                                  | 13  |                                 |                                 | X       |                                    | Platinum (1 component, ready to use) | Black                                  | Molded parts, e.g. spark plug boots  |
| Self-adhesion               | ELASTOSIL®     | R plus 4070/20    | 24                        | 1.07  | 7.9  | 1200                                 | 35                                  | 65  |                                 |                                 |         |                                    | Platinum (1 component, ready to use) | Translucent                            | Hard-soft composite molded parts   |
|                             | ELASTOSIL®     | R plus 4070/30    | 34                        | 1.11  | 10.5   | 1200                                 | 50                                  | 69 <sup>3</sup>                                 |                                 |                                 |         |                                    | Platinum (1 component, ready to use) | Translucent                            | Hard-soft composite molded parts   |
|                             | ELASTOSIL®     | R plus 4070/60    | 62                        | 1.17  | 10.0   | 770                                  | 39                                  | 83 <sup>3</sup>                                 |                                 |                                 |         |                                    | Platinum (1 component, ready to use) | Translucent                            | Hard-soft composite molded parts   |
|                             | ELASTOSIL®     | R plus 4370/40    | 40                        | 1.14  | 10.9   | 1000                                 | 39                                  | 43 <sup>3</sup> (pc:21)                         |                                 |                                 |         | X                                  | Platinum (100:1.5 base + catalyst)   | Translucent                            | Extruded or coextruded parts   |
|                             | ELASTOSIL®     | R plus 4370/50    | 48                        | 1.14  | 10.6   | 900                                  | 42                                  | 43 <sup>3</sup> (pc:21)                         |                                 |                                 |         | X                                  | Platinum (100:1.5 base + catalyst)   | Translucent                            | Extruded or coextruded parts   |
| High heat resistance        | ELASTOSIL®     | R plus 4050/55    | 58                        | 1.13  | 8.4  | 400                                  | 23                                  | 6   | X                               | X                               | X       |                                    | Platinum (100:1.5 base + catalyst)   | Transparent                            | Molded parts, e.g. spark plug boots  |
|                             | ELASTOSIL®     | R plus 4050/55 mH | 56                        | 1.13  | 8.8  | 460                                  | 23                                  |   |                                 |                                 | X       |                                    | Platinum (1 component, ready to use) | Black                                  | Molded parts, e.g. spark plug boots  |
|                             | ELASTOSIL®     | R plus 4350/55    | 58                        | 1.13  | 8.2  | 350                                  | 18                                  | 10  | X                               | X                               |         | X                                  | Platinum (100:1.5 base + catalyst)   | Translucent                            | Extruded or co extruded parts  |
| Oil bleeding                | ELASTOSIL®     | R plus 4806/20    | 23                        | 1.05  | 6.3  | 880                                  | 15                                  | 14  |                                 |                                 | X       |                                    | Platinum (1 component, ready to use) | Opaque                                 | Oil-bleeding molded parts, e.g. mat seals, connector pads, weather packs for the automotive industry |
|                             | ELASTOSIL®     | R plus 4846/30    | 30                        | 1.11  | 10.8   | 1100                                 | 34                                  | 19  |                                 |                                 | X       |                                    | Platinum (1 component, ready to use) | Opaque                                 | Oil-bleeding molded parts, e.g. mat seals, connector pads, weather packs for the automotive industry |
| Electrically conductive     | ELASTOSIL®     | R plus 573/50     | 50                        | 1.11  | 5.5  | 340                                  | 13                                  | 30  |                                 |                                 |         | X                                  | Platinum (A/B component)             | Black                                  | Production of electrically conductive cable components and profiles                                  |
|                             | ELASTOSIL®     | R plus 573/70     | 71                        | 1.16  | 6.7  | 230                                  | 14                                  | 29  |                                 |                                 |         | X                                  | Platinum (A/B component)             | Black                                  | Production of electrically conductive cable components and profiles                                  |

These figures are only intended as a guide and should not be used in preparing specifications.

<sup>1</sup> BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).

<sup>2</sup> FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).

<sup>3</sup> Not post-cured, other values in this column after 4h/200 °C post-curing.

Please contact us for in-depth technical consulting to select the right product for your individual demands.

Please contact us if you are interested in products with specific characteristics or if you need products from our basic portfolio in other hardnesses.

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Wacker Chemie AG  
 Hanns-Seidel-Platz 4  
 81737 Munich, Germany  
[www.wacker.com/contact](http://www.wacker.com/contact)

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SILPURAN®

PRODUCT OVERVIEW

## SILICONE RUBBER FOR MEDICAL APPLICATIONS

Liquid Silicone Rubber · Multi-purpose · High tear resistance · Low coefficient of friction · Non-healing · Self-adhesion  
 Solid Silicone Rubber · Multi-purpose · High tear resistance · Low coefficient of friction

6709H e/10.22 replaces 6709H e/05.21

| Main characteristics          | Brand      | Product     | Product type / cure system | Hardness Shore A ISO 48-4 | Specific gravity [g/cm <sup>3</sup> ] ISO 1183-1A | Tensile strength [N/mm <sup>2</sup> ] ISO 37 Typ 1 | Elongation at break [%] ISO 37 Typ 1 | Tear resistance [N/mm] ASTM D 624 B | Compression set [%] (22 h/175 °C) DIN ISO 815-1 | Food contact – BfR <sup>1</sup> | Food contact – FDA <sup>2</sup> | Medical, pharma. biotech – USP Class VI <sup>3</sup> | Medical pharma. biotech – ISO 10993 <sup>4</sup> | Molding | Appearance  | Typical applications  |
|-------------------------------|------------|-------------|----------------------------|---------------------------|---|--|--------------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|--|--|---------|-------------|---|
| <b>Liquid silicone rubber</b> |            |             |                            |                           |   |  |                                      |                                     |   |                                 |                                 |  |  |         |             |   |
| Multi purpose                 | SILPURAN®  | 6000/05     | LSR, platinum (1:1 A/B)    | 5                         | 1.04  | 2.5  | 700                                  | 6                                   | 15  |                                 |                                 | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/10     | LSR, platinum (1:1 A/B)    | 10                        | 1.07  | 4.2  | 740                                  | 12                                  | 15  |                                 |                                 | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/20     | LSR, platinum (1:1 A/B)    | 20                        | 1.08  | 8.0  | 850                                  | 21                                  | 17  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/30     | LSR, platinum (1:1 A/B)    | 30                        | 1.10  | 8.6  | 650                                  | 25                                  | 13  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.12  | 9.6  | 600                                  | 29                                  | 11  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.13  | 10.0   | 480                                  | 30                                  | 14  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6000/60     | LSR, platinum (1:1 A/B)    | 60                        | 1.13  | 10.0   | 350                                  | 27                                  | 14  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
| High tear resistance          | SILPURAN®  | 6400/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.12  | 9.2  | 630                                  | 35                                  | 25  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6400/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.12  | 9.1  | 450                                  | 47                                  | 25  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
|                               | SILPURAN®  | 6400/60     | LSR, platinum (1:1 A/B)    | 60                        | 1.13  | 9.5  | 430                                  | 51                                  | 20  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry                                    |
| Low coefficient of friction   | SILPURAN®  | 6600/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.12  | 9.4  | 550                                  | 32                                  | 14  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry with a low coefficient of friction |
|                               | SILPURAN®  | 6600/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.12  | 8.9  | 440                                  | 31                                  | 13  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry with a low coefficient of friction |
|                               | SILPURAN®  | 6600/60     | LSR, platinum (1:1 A/B)    | 60                        | 1.12  | 9.0  | 310                                  | 26                                  | 14  | X                               | X                               | X  | X  | X       | Transparent | Molded parts for the medical and pharma industry with a low coefficient of friction |
| Reduced healing               | SILPURAN®  | 6610/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.21  | 7.2  | 510                                  | 20                                  | 12  | X                               | X                               | X  | X  | X       | White       | Needle free valves, slit membranes where healing needs to be avoided                |
|                               | SILPURAN®  | 6610/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.23  | 8.0  | 450                                  | 25                                  | 12  | X                               | X                               | X  | X  | X       | White       | Needle free valves, slit membranes where healing needs to be avoided                |
|                               | SILPURAN®  | 6610/60     | LSR, platinum (1:1 A/B)    | 60                        | 1.23  | 7.0  | 300                                  | 20                                  | 15  | X                               | X                               | X  | X  | X       | White       | Needle free valves, slit membranes where healing needs to be avoided                |
| Self adhesion                 | SILPURAN®  | 6700/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.11  | 8.2  | 640                                  | 23                                  |   | X                               | X                               | X  | X  | X       | Transparent | Hard-soft composite parts for the medical and pharma industry (silicone on PA, PBT) |
|                               | SILPURAN®  | 6700/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.12  | 8.5  | 590                                  | 24                                  |   | X                               | X                               | X  | X  | X       | Transparent | Hard-soft composite parts for the medical and pharma industry (silicone on PA, PBT) |
|                               | SILPURAN®  | 6700/60     | LSR, platinum (1:1 A/B)    | 60                        | 1.12  | 9.6  | 490                                  | 26                                  |   | X                               | X                               | X  | X  | X       | Transparent | Hard-soft composite parts for the medical and pharma industry (silicone on PA, PBT) |
|                               | SILPURAN®  | 6740/40     | LSR, platinum (1:1 A/B)    | 40                        | 1.10  | 8.8  | 710                                  | 27                                  | 10  | X                               | X                               | X  | X  | X       | Transparent | Hard-soft composite parts for the medical and pharma industry (silicone on PA, PBT) |
|                               | SILPURAN®  | 6760/50     | LSR, platinum (1:1 A/B)    | 50                        | 1.10  | 8.4  | 600                                  | 27                                  |   | X                               | X                               | X  | X  | X       | Transparent | Hard-soft composite parts for the medical and pharma industry (silicone on PA, PBT) |
| X-ray opaque                  | ELASTOSIL® | LR 34004/50 |                            | 50                        | 1.23  | 7.8  | 450                                  | 26                                  |   |                                 |                                 | X  | X  | X       | White       | Radioopaque LSR   |
| <b>Solid silicone rubber</b>  |            |             |                            |                           |   |  |                                      |                                     |   |                                 |                                 |  |  |         |             |   |
| Radioopaque additive          | SILPURAN®  | AUX 8250 RO | All                        |                           |   |  |                                      |                                     |   | X                               | X                               | X  | X  |         | White       | Medical tubes   |
|                               | SILPURAN®  | AUX 8251 RO | All                        |                           |   |  |                                      |                                     |   | X                               | X                               | X  | X  |         | White       | Medical tubes   |

All SILPURAN® products are produced in accordance to WACKER CLEAN OPERATIONS standards. These figures are only intended as a guide and should not be used in preparing specifications.

<sup>1</sup> BfR recommendation XV (silicones); (BfR = Bundesinstitut für Risikobewertung).

<sup>2</sup> FDA CFR 21 § 177.2600 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration).

<sup>3</sup> Systemic / intracut. toxicity, implantation test (additional tests on request).

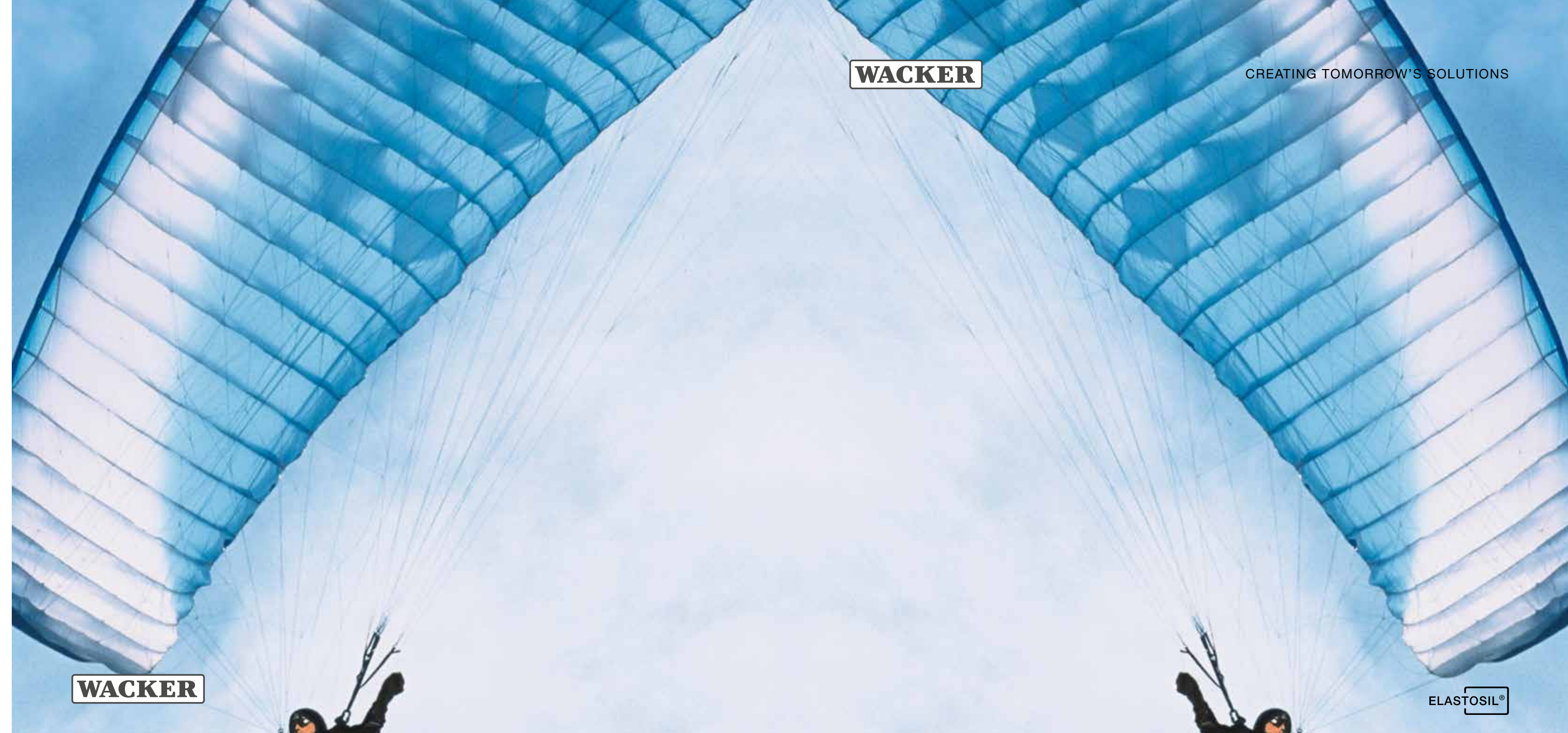
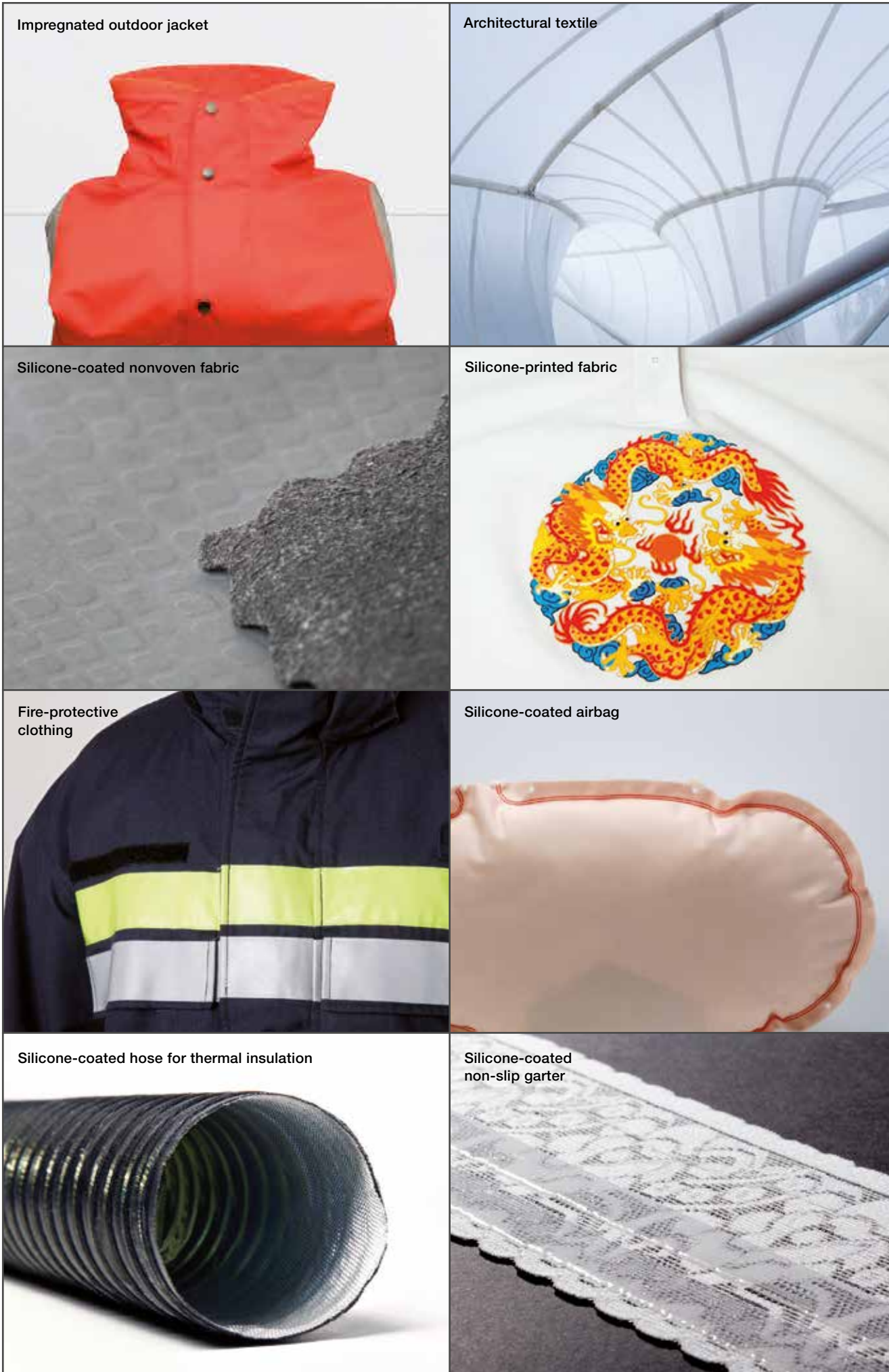
<sup>4</sup> Cytotoxicity, sensitization as per LLNA, pyrogenicity (additional tests on request).

Please contact us about the compliance of our SILPURAN® grades with European Pharmacopoeia, Chapter 3.1.9 "Silicone elastomers for closures and tubing".

Please contact us for in-depth technical advice on selecting the right product for your individual needs.

Please contact us if you are interested in products with specific characteristics or if you need products from our basic portfolio in other hardnesses.

Device Master Files listed at FDA.



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ELASTOSIL®

Wacker Chemie AG  
 Hanns-Seidel-Platz 4  
 81737 Munich, Germany  
[www.wacker.com/contact](http://www.wacker.com/contact)

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6934e/09.22 replaces 6934e/05.21

PRODUCT OVERVIEW

## SILICONE RUBBER FOR TEXTILE COATING

Rubber Dispersions · High Temperature Curing Silicone Rubber ·  
 Room Temperature Curing Silicone Rubber · Top Coats

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| Product  | Curing mechanism | Characteristics  | Color             | Viscosity at 1/sec [mPas]<br>DIN EN ISO 3219 / 25 °C | Viscosity at 10/sec [mPas]<br>DIN EN ISO 3219 / 25 °C | Hardness Shore A<br>ISO 48-4 | Tensile strength [N/mm <sup>2</sup> ]<br>ISO 37 Typ 1 | Elongation at break [%]<br>ISO 37 Typ 1 | Tear resistance [N/mm]<br>ASTM D 624 B | Processing   | BfR XV.<br>Silicones* | FDA<br>175.300<br>coatings* |
|--|------------------|--|-------------------|--|---|------------------------------|---|---|--|--|-----------------------|-----------------------------|
| <b>Rubber Dispersions</b>                      |                  |  |                   |  |   |                              |   |   |  |  |                       |                             |
| ELASTOSIL® RD 6600 F                           | Addition         | Dry surface, solvent-based (60% xylene)                              | Transparent       | 115,000  | 45,000  | 60                           | 5.5   | 350                                     | 12.0                                   | Addition of 3% ELASTOSIL® CROSSLINKER 525 or 1% WACKER® CROSSLINKER W required             | -                     | -                           |
| WACKER® FINISH CT 51 L                         | Condensation     | Silky and flexible coatings, solvent-based (75% toluene)             | Transparent       | 31,000   | 19,000  | -                            | -   | -                                       | -                                      | Addition of WACKER® INHIBITOR PT 88 and 1% WACKER® CATALYST C05 required                   | +                     | +                           |
| <b>High Temperature Curing Silicone Rubber</b> |                  |  |                   |  |   |                              |   |   |  |  |                       |                             |
| ELASTOSIL® LR 3001/55 FR A/B                   | Addition         | Flame retardant (UL 94: V-0)   | Grey              | 250,000  | 140,000   | 55                           | 6.3   | 300                                     | 15.0                                   | A/B-System, mixing ratio A:B = 1:1   | -                     | -                           |
| ELASTOSIL® LR 6200 A/B                         | Addition         | Low viscosity, dry surface   | White             | 15,000   | 9,000   | 40                           | 2.8   | 210                                     | 4.6                                    | A/B-System, mixing ratio A:B = 1:1   | -                     | -                           |
| ELASTOSIL® LR 3003/20 TR                       | Addition         | General purpose, excellent mechanical properties                     | Transparent       | 360,000  | 210,000   | 22                           | 8.3   | 870                                     | 24.0                                   | A/B-System, mixing ratio A:B = 1:1   | +                     | +                           |
| ELASTOSIL® LR 3003/30                          | Addition         | General purpose, excellent mechanical properties                     | Transparent       | 210,000  | 100,000   | 30                           | 7.0   | 610                                     | 21.0                                   | A/B-System, mixing ratio A:B = 1:1   | +                     | +                           |
| ELASTOSIL® LR 6240 A/B                         | Addition         | Good flexibility, high modulus                                       | Transparent       | 30,000   | 20,000  | 30                           | 1.7   | 290                                     | 4.9                                    | A/B-System, mixing ratio A:B = 1:1   | +                     | +                           |
| ELASTOSIL® LR 6250 F                           | Addition         | General purpose  | Transparent       | 53,000   | 32,000  | 36                           | 5.0   | 350                                     | 10.4                                   | Addition of 3% ELASTOSIL® CROSSLINKER 525 or 1% WACKER® CROSSLINKER W                      | -                     | +                           |
| ELASTOSIL® LR 6260 A/B                         | Addition         | High dielectric strength   | Ivory             | 57,000   | 31,000  | 39                           | 5.1   | 380                                     | 8.9                                    | A/B-System, mixing ratio A:B = 1:1   | -                     | +                           |
| ELASTOSIL® LR 6320 F                           | Addition         | General purpose, low viscosity also with adhesion promoter           | Transparent       | 28,000   | 23,000  | 20                           | 2.4   | 450                                     | 4.3                                    | Addition of 10% ELASTOSIL® CROSSLINKER SX or 3% ELASTOSIL® CROSSLINKER 525                 | +                     | +                           |
| ELASTOSIL® LR 6360 F                           | Addition         | General purpose  | Transparent       | 38,000   | 28,000  | 60                           | 5.0   | 150                                     | 6.1                                    | Addition of 5% WACKER® CROSSLINKER W   | +                     | +                           |
| ELASTOSIL® NT 76                               | Addition         | Newtonian rheology   | Transparent       | 40,000   | 40,000  | 20                           | 0.7   | 160                                     | 2.3                                    | Addition of 3% ELASTOSIL® CROSSLINKER 525 or 6% WACKER (R) CROSSLINKER HX required         | +                     | +                           |
| ELASTOSIL® R 401/40                            | Peroxide         | General purpose  | Transparent       | n. a.  | n. a.   | 40                           | 10.0  | 580                                     | 28.0                                   | Addition of 1.5% ELASTOSIL® AUX CURING AGENT E or 0.7% ELASTOSIL® CURING AGENT C1 required | ***                   | ***                         |
| ELASTOSIL® R plus 4001/40                      | Addition         | General purpose  | Transparent       | n. a.  | n. a.   | 40                           | 11.8  | 930                                     | 38.0                                   | Ready to use system  | +                     | +                           |
| <b>Room Temperature Curing Silicone Rubber</b> |                  |  |                   |  |   |                              |   |   |  |  |                       |                             |
| ELASTOSIL® E43 N                               | Condensation     | General purpose, excellent adhesion, tin-free                        | Transparent       | 380,000  | 260,000   | 35                           | 4.5   | 350                                     | 12.0                                   | Ready to use system  | +                     | +                           |
| ELASTOSIL® E50 N                               | Condensation     | General purpose, self leveling, tin-free                             | Transparent       | 63,000   | 53,000  | 35                           | 1.5   | 150                                     | 5.0                                    | Ready to use system  | +                     | +                           |
| ELASTOSIL® E91                                 | Condensation     | Anti-slip surface, fast curing with steam, tin-free                  | Transparent       | 100,000  | 60,000  | 20                           | 1.2   | 350                                     | -                                      | Ready to use system  | -                     | -                           |
| ELASTOSIL® E92 N                               | Condensation     | Anti-slip surface, fast skin formation at room temperature, tin-free | Transparent       | 160,000  | 90,000  | 20                           | 1.5   | 350                                     | -                                      | Ready to use system  | -                     | -                           |
| <b>Top Coats</b>                               |                  |  |                   |  |   |                              |   |   |  |  |                       |                             |
| ELASTOSIL® 47007                               | Addition         | Low coefficient of friction, solvent-free                            | Ivory             | 16,000   | 7,000   | -                            | -   | -                                       | -                                      | Addition of 3% ELASTOSIL® CROSSLINKER W or 5% WACKER® CROSSLINKER HX required              | -                     | -                           |
| ELASTOSIL® RD 3151 F                           | Addition         | Glossy varnish, easy to clean, solvent-based (50% white spirits)     | Transparent       | 20,000   | 3,500   | -                            | -   | -                                       | -                                      | Addition of 3% WACKER® CROSSLINKER W required  | -                     | -                           |
| ELASTOSIL® RD 6620 F                           | Addition         | Matt varnish, solvent-based (50% xylene)                             | Colorless, opaque | 330,000  | 75,000  | -                            | -   | -                                       | -                                      | Addition of 1% WACKER® CROSSLINKER W required  | -                     | -                           |

\* Valid for the silicone base. Additives have to be evaluated separately!  
\*\* Valid after post-curing (4hr/200 °C)

**WACKER**

Wacker Chemie AG  
Hanns-Seidel-Platz 4  
81737 Munich, Germany  
[www.wacker.com/contact](http://www.wacker.com/contact)

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