

ELASTOSIL[®] R 805/75 OH



High Consistency Silicone Rubber (HCR)

Vulcanisates made from ELASTOSIL[®] R 805/75 OH are noted for their good resistance to engine oils and aggressive mineral oils, even at high temperatures. They have good mechanical properties and a low compression set.

Properties

ELASTOSIL[®] R 805/75 OH is an oil resistant peroxide-curing silicone rubber.

The addition of heat stabilizers at service temperatures of more than 180 °C is recommended.

Further information to improve the heat stability by use of specific ELASTOSIL[®] AUX Heat Stabilizers can be obtained from the Technical Information Sheet "ELASTOSIL[®] AUX Stabilizers H" or from the latest brochures.

Specific features

- Low compression set
- Oil resistant

Technical data

Properties Cured

Cure conditions: 0.8 % ELASTOSIL® AUX Crosslinker C1 (Dicumylperoxide), 15 min / 165 °C in press

| Property | Condition | Value | Method |
|---------------------|---------------|------------------------|-------------------------------|
| Appearance | - | beige | - |
| Hardness Shore A | - | 80 | DIN ISO 48-4 |
| Density | - | 1.36 g/cm ³ | DIN EN ISO 1183-1 A |
| Tensile strength | - | 6.4 N/mm ² | ISO 37 type 1 |
| Elongation at break | - | 150 % | ISO 37 type 1 |
| Tear strength | - | 17 N/mm | ASTM D 624 B |
| Compression Set | 22 h 175 °C | 14 % | DIN ISO 815-1 type B method A |
| Rebound resilience | - | 50 % | ISO 4662 |

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

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

ELASTOSIL® R 805/75 OH can be processed by compression, transfer and injection moulding. Usually post-curing is not necessary. To achieve an optimum compression set, it is advisable to post-cure the material for 4 hours at 200 °C.

ELASTOSIL® R 805/75 OH is especially recommended for the production of shaft seals.

Processing

The raw rubber requires the addition of peroxides for vulcanization at elevated temperatures. A homogeneous incorporation is a must, but please avoid temperatures >30°C along the incorporation process in order to maintain best processing behavior. Pot life is depending on the used peroxide and storage condition.

For detailed information please refer to the latest edition of our brochure "SOLID AND LIQUID SILICONE RUBBER - MATERIAL AND PROCESSING GUIDELINES".

Packaging and storage

Packaging

This product is available in 20 kg and 540 kg cardboard packaging.

Storage

Please store the cardboard boxes in a dry and cool place. Already opened boxes should be closed again to avoid any contamination. The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code ELASTOSIL® R 805/75 OH



For technical, quality or product safety questions, please contact:

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