



WACKER

SILICONES

ELASTOSIL®

EVEN BETTER:
FLUORINATED LIQUID
SILICONE RUBBER GRADES

CREATING TOMORROW'S SOLUTIONS



THE ADVANTAGE IN THE LIQUID SILICONE RUBBER RANGE FROM WACKER IS THE WORD “FLUORINATED”

YOU DESERVE SOMETHING BETTER

Engine and gearbox applications place extremely high demands on moldings and gaskets. This is where fluorinated liquid silicone rubber grades from WACKER come in.

Do you manufacture engine and gearbox gaskets? Do you need chemically resistant materials for use in permanent contact with oils and fuels? Then you need fluorinated liquid silicone rubber grades from WACKER: quality for extreme demands and peak performance.

This novel product line of liquid silicone rubber grades expands on WACKER's range of products for the automotive industry. That means you can obtain the perfect solution from WACKER for any special application.

What are the advantages of WACKER fluorinated liquid silicone rubber products?

- No tackiness
- Excellent demolding
- Rapid production cycles
- High resistance to swelling in oil and fuels
- Good compression set

PUT THEM TO THE ACID TEST

WACKER SILICONES' quality control labs put all new developments through their paces.

Product data (without postcuring)

Property	Test Method
Hardness, Shore A	DIN 53 505
Appearance	
Density	ISO 1183-1 A
Tensile strength	DIN 53 504 S 1
Elongation at break	DIN 53 504 S 1
Tear strength	ASTM D 624 D
Compression set	ISO 815-B (22 h/150° C)
Compression set post-cured (200° C/4 h)	ISO 815-B (22 h/150° C)

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

The range of available rubber grades for the automotive industry is bewilderingly large, and quality differences are huge. But, for peak performance in critical applications in the engine and gearbox only maximum quality will do. Ask your WACKER sales manager or request our detailed product datasheets. It is well worth making a comparison.

Unit	ELASTOSIL® FLR 3900/40	ELASTOSIL® FLR 3900/60	ELASTOSIL® FLR 3905/40	ELASTOSIL® FLR 3905/60
	40	60	40	60
	Translucent	Translucent	Translucent	Translucent
[g/cm ³]	1.24	1.27	1.24	1.27
[N/mm ²]	6	6	5	5
[%]	400	280	400	250
[N/mm]	20	18	14	14
[%]	20	20	18	20
[%]	14	14	12	12

WACKER fluorinated liquid silicone rubber grades are better.

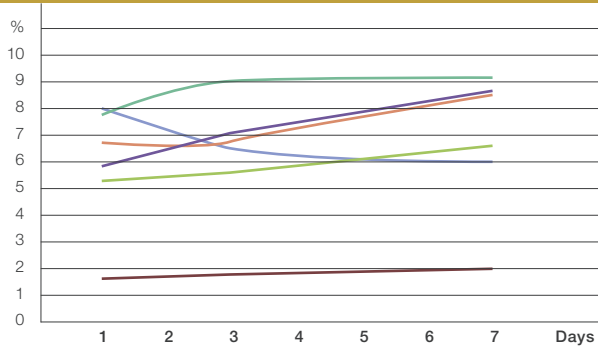
WACKER fluorinated liquid silicone rubber grades combine the advantages of liquid silicone rubber processing with the chemical resistance of fluorinated silicone rubber. This unique combination of excellent properties gives them a clear advantage over comparable products, especially for sealing applications in the engine and gearbox:

- They have better aging properties than natural rubber products, and therefore a longer lifetime
- They can be processed more easily and with shorter cycle times
- They greatly reduce processing costs
- They can be easily pigmented in any color
- With the aid of primers, they are suitable for 2K moldings with thermoplastics

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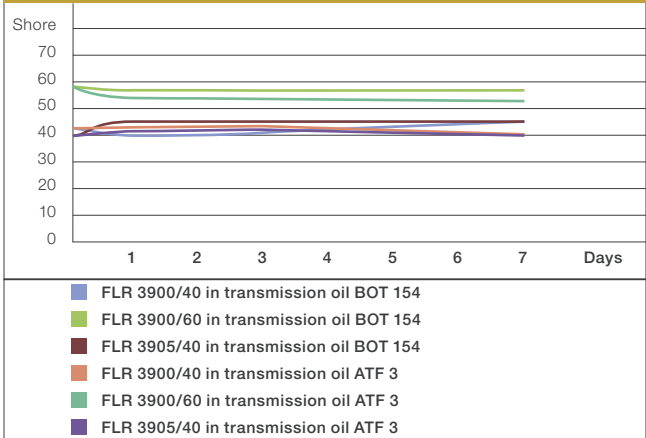
Increase in Swelling after Immersion in Various Transmission Oils at 150 °C



- FLR 3900/40 in transmission oil BOT 154
- FLR 3900/60 in transmission oil BOT 154
- FLR 3905/40 in transmission oil BOT 154
- FLR 3900/40 in transmission oil ATF 3
- FLR 3900/60 in transmission oil ATF 3
- FLR 3905/40 in transmission oil ATF 3



Loss in Hardness after Immersion in Various Transmission Oils at 150 °C



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The data presented in this brochure are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately upon receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The information given in this brochure 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.

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WACKER **SILICONES**

Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München, Germany
info.silicones@wacker.com

www.wacker.com