ELASTOSIL® R 752/50 OH

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

Vulcanizates made from the peroxide-curing ELASTOSIL® R 752/50 OH exhibit a very low rebound resilience and high damping capability.

Properties

This product can be used within a temperature range of - 55 °C to + 210 °C.

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

- High damping

Technical data

Properties Cured

Cure conditions: 0.7 % ELASTOSIL® AUX Crosslinker C1 (Dicumylperoxide), 15 min /165 °C in press, post-cured 4 h / 200 °C

Property	Condition	Value	Method
Appearance	-	translucent	-
Density	-	1.18 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	50	ISO 7619-1
Tensile strength	-	9.9 N/mm^2	ISO 37 type 1
Elongation at break	-	770 %	ISO 37 type 1
Compression Set	22 h | 175 °C	38 %	DIN ISO 815-1 type B method A
Rebound resilience	-	33 %	ISO 4662
Tear strength	-	32 N/mm	ASTM D 624 B

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

Applications

- Damping
- Automotive Parts
- Molded Parts

Application details

ELASTOSIL® R 752/50 OH is particularly suitable for the manufacturing of low-modulus rubber articles by compression, transfer or injection molding.

Some special applications, such as highly damping elements, require silicone rubbers with low rebound resilience.

Processing

The raw rubber requires the addition of peroxides for vulcanization at elevated temperatures. A homogeneous incorporation is a must. At processing temperatures below 30°C the stickiness on the roll mill can be reduced. 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 752/50 OH

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

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