ELASTOSIL® R 570/70 OH

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

ELASTOSIL® R 570/70 OH is a peroxide curing HCR silicone rubber for the manufacture of electrically conductive products.

Properties

This product is electrically conductive and shows a low volume resistivity.

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

ELASTOSIL® R 570/70 OH is not suitable for vulcanisation using crosslinker E.

Specific features

- Electrically conductive

Technical data

Properties Cured

Cure conditions (post-cured 4 h / 200 °C):
3.0 % ELASTOSIL® AUX Crosslinker C1 (Dicumylperoxide), 15 min / 165 °C in press

Property	Condition	Curing Agent C6	Method
Density	-	1.16 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	71	DIN ISO 48-4
Tensile strength	-	7.4 N/mm^2	ISO 37 type 1
Elongation at break	-	180 %	ISO 37 type 1
Compression Set[1]	22 h | 175 °C	29 %	DIN ISO 815-1 type B method A
Volume resistivity	-	4.0 Ohmcm	IEC 62631-3-1
Appearance	-	black	-
Rebound resilience	-	45 %	ISO 4662
Tear strength	-	13 N/mm	ASTM D 624 B

[1]post-cured 4 h / 200 °C

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.

Applications

- Ignition & Battery Cables
- Molded Parts

Application details

Control elements for cable accessories, contacts and keypads, interconnectors, electrically conductive rollers, electrodes.

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.

IMPORTANT: in order to produce a ready-to-use-compound, an increased concentration of peroxide is needed. ELASTOSIL® R 570/70 OH can be crosslinked with 3.0 % crosslinker C1 or crosslinker C6. Crosslinker E is not suitable!

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.

Special delivery forms are possible but depend on several technical and commercial aspects. Please contact your local sales manager in such cases.

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 570/70 OH

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

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