

ELASTOSIL[®] R 755/40 OH



High Consistency Silicone Rubber (HCR)

ELASTOSIL[®] R 755/40 OH is a low-viscosity peroxide curing silicone rubber for manufacturing silicone rubber based spin casting discs.

Properties

- extremely high network density
- excellent resistance against liquid alloys in spincasting applications
- accepts high amounts of inactive filler

Specific features

- Good heat stability
- Simple compounding with conventional auxiliaries

Technical data

Properties Cured

Cure conditions: 0.7 % ELASTOSIL® AUX Crosslinker C1 (Dicumylperoxide), 15 min / 165 °C in press

Property	Condition	Curing Agent C1	Method
Appearance	-	white	-
Density	23 °C	1.11 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	44	ISO 7619-1
Tensile strength	-	4.2 N/mm ²	ISO 37 type 1
Elongation at break	-	340 %	ISO 37 type 1
Rebound resilience	-	65 %	ISO 4662
Tear strength	-	9 N/mm	ASTM D 624 B

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

- Molded Parts

Application details

The requirements of the spin casting disc largely depend on different model shapes. Casting models with deep undercuts may require blends of ELASTOSIL® R 755/40, softer or higher tear grades alternative with ELASTOSIL® EL AUX HND Batch. Thus it is necessary to prepare the best suitable disc quality for each application. ELASTOSIL® R 755/40 has been developed specifically for a high load of fillers for preparing compounds for spin-casting discs.

Further information you can get in our technical leaflet "Manufacturing Silicone Rubber based Spin Casting Discs".

Processing

ELASTOSIL® R 755/40 OH is a silicone rubber base for spin casting discs. Usually ELASTOSIL® R 755/40 OH is mixed with 80 – 100 parts ground quartz and 1.5 parts ELASTOSIL® AUX crosslinker C1 (Dicumylperoxide).

Ageing properties (non-post-cured)

100.0 parts R 755/40

80.0 parts Quartz

Hardness \pm 5 Initial value 65

30 min, 350 °C 53

60 min, 350 °C 51

180 min, 350 °C 62

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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 755/40 OH



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

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