ELASTOSIL® R 700/80 OH

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

ELASTOSIL® R 700/80 OH is a HCR grade for extrusion and molding applications.

It provides good resistance to oil and fat.

Postcured parts can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA § 177.2600 under observance of any given limitations on extractable and volatile substances.

Properties

- good resistance to oil and fat
- high elasticity and very low compression set
- The compounds may be blended to produce any shore hardness value between 40 and 80. Blends with products from other series are also possible.

Specific features

- Food-contact
- Low compression set
- Oil resistant

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
Density	-	1.39 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	83	DIN ISO 48-4
Tensile strength	-	6.2 N/mm^2	ISO 37 type 1
Elongation at break	-	190 %	ISO 37 type 1
Compression Set	22 h | 175 °C	17 %	DIN ISO 815-1 type B method A
Appearance	-	beige	-
Tear strength	-	16 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

- Dairy Applications
- Molded Parts
- Roller Coatings

Application details

The compounds are recommended for all kinds of seals that come into contact with oil and fat.
Properly post cured parts can be used for food contact applications and are suitable for use under the Recommendation "XV. Silicones" of the BfR and FDA § 177.2600 under observance of any given limitations on extractable and volatile substances.
ELASTOSIL® R 700/80 OH is especially used, when low compression set is crucial for achieving good seal properties.

Processing

ELASTOSIL® R 700/80 OH is suitable for compression, transfer and injection molding and also for making extruded profiles. ELASTOSIL® R 700/80 OH can be vulcanized with the peroxides normally used for compression molding or extrusion of solid silicone rubber. Highest elasticity and very low compression set can be only achieved with post curing.
In case of use of Crosslinker E, a specific migration limit (SML) of 5 mg/kg food (food simulant) must be met on the finished article for the peroxide decomposition substance 2,4-Dichlorobenzoic acid.

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. 1 space line

QR Code ELASTOSIL® R 700/80 OH

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

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