ELASTOSIL® R 756/50 OH

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

ELASTOSIL® R 756/50 OH is a peroxide curing high consistency silicone rubber whose vulcanizates possess excellent resistance to hot air, particularly after addition of heat stabilizer. The vulcanizates show good tear resistance, low compression set and are highly elastic.

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

Specific features

- Food-contact
- Heat resistant
- Low compression set
- Short-term resistance up to 275 °C

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
Density	-	1.11 g/cm^3	DIN EN ISO 1183-1 A
Hardness Shore A	-	47	ISO 7619-1
Tensile strength	-	9.5 N/mm^2	ISO 37 type 1
Elongation at break	-	540 %	ISO 37 type 1
Compression Set[(1)]	22 h | 175 °C	9 %	DIN ISO 815-1 type B method A
Appearance	-	transparent	-
Rebound resilience	-	64 %	ISO 4662
Tear strength	-	21 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.

Heat resistance

Cure conditions: 0.7 % ELASTOSIL® AUX Crosslinker C1 (Dicumylperoxide), 15 min / 165 °C in press, post-cured 4 h / 200 °C
heat stabilized up to 250 °C with 1.5 % ELASTOSIL® AUX Stabilizer H3
heat stabilized up to 300 °C with 1.5 % ELASTOSIL® AUX Stabilizer H3 and 2.0% ELASTOSIL® AUX Stabilizer H6

Property	After heat aging 168 h / 250 °C	After heat aging 1000 h / 250 °C	After heat aging 168 h / 300 °C	Method
Hardness Shore A	45	60	68	ISO 7619-1
Tensile strength	5.3 N/mm^2	6.0 N/mm^2	5.4 N/mm^2	ISO 37
Elongation at break	490 %	310 %	180 %	ISO 37

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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
- General Automotive Parts
- Household Applications
- Molded Parts

- Profiles & Tubings

Application details

ELASTOSIL® R 756/50 OH is optimized for applications at high temperatures and can be used for moulding applications. Vulcanizates of ELASTOSIL® R 756/50 OH in combination with ELASTOSIL® AUX Stabilizer, can withstand temperatures of 300 °C for at least seven days.

Processing

Vulcanisates which have not been post-cured can be used in numerous fields of applications, since postcuring has only little effect on mechanical properties. To obtain optimum compression set values it is advisable to post-cure for 4 hours at 200 °C.

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 756/50 OH

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

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