ELASTOSIL® R 862/60 OH

ELASTOSIL®

High Consistency Silicone Rubber (HCR)

Vulcanizates of ELASTOSIL® R 862/60 OH possess particularly good resistance to hot air in combination with several heat stabilizers. The vulcanizates are highly elastic and show extraordinary low compression set.

Properties

ELASTOSIL® R 862/60 is a heat resistant peroxide-curing silicone rubber.

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

- Heat resistant
- High rebound resilience
- Ultra-low compression set

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	Curing Agent C1	Method
Appearance	-	transparent	-
Hardness Shore A	-	62	DIN ISO 48-4
Density	-	1.15 g/cm^3	DIN EN ISO 1183-1 A
Tensile strength	-	8.2 N/mm^2	ISO 37 type 1
Elongation at break	-	280 %	ISO 37 type 1
Tear strength	-	15 N/mm	ASTM D 624 B
Compression Set[(1)]	22 h | 175 °C	5 %	DIN ISO 815-1 type B method A
Rebound resilience	-	63 %	ISO 4662

[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

Heat stabilized with 1,5 % ELASTOSIL® AUX Stabilizer H3, post-cured 4 h / 200 °C

Property	After heat aging 168 h / 250 °C	Method
Appearance	black	-
Hardness Shore A	66	DIN ISO 48-4
Tensile strength	7.0 N/mm^2	ISO 37
Elongation at break	240 %	ISO 37

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Applications

- General Automotive Parts

Application details

ELASTOSIL® R 862/60 OH is a peroxide curing high consistency silicone rubber suitable for the manufacture of molded articles like gaskets and bellows. Vulcanizates provide excellent heat stability by adding appropriate heat stabilizers, such as 1,5% ELASTOSIL® AUX Stabilizer H3 or 3% ELASTOSIL® AUX Stabilizer H1.
To obtain optimum compression set values it is advisable to post-cure articles made of ELASTOSIL® R 862/60 OH for 4 hours at 200°C.

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.

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 862/60 OH

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

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