

ELASTOSIL[®] R 863/65 MH



High Consistency Silicone Rubber (HCR)

ELASTOSIL[®] R 863/65 MH is a peroxide curing silicone rubber with very high green-strength, which enhances calendaring and extrusion performance significantly. Uncured extruded hoses show high dimension stability and non-sticky surface.

Properties

ELASTOSIL[®] R 863/65 is a high green-strength 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

- Coolant resistant
- High green strength
- Low compression set

Technical data

Properties Cured

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

Property	Condition	Value	Method
Hardness Shore A	-	65	DIN ISO 48-4
Density	-	1.18 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	10.0 N/mm ²	ISO 37 type 1
Elongation at break	-	440 %	ISO 37 type 1
Tear strength	-	20 N/mm	ASTM D 624 B
Compression Set ⁽¹⁾	22 h 175 °C	10 %	DIN ISO 815-1 type B method A
Rebound resilience	-	55 %	ISO 4662

¹post-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

- Molded Parts
- Radiator Hoses

Application details

ELASTOSIL® R 863/65 MH shows improved coolant resistance and therefore is particularly suitable for the economical production of radiator hoses in the automotive industry.

Processing

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

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 863/65 MH



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

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