

ELASTOSIL[®] R 531/60 /E/2003



High Consistency Silicone Rubber (HCR/HTV)

ELASTOSIL[®] R 531/60 /E/2003 is a peroxide curing HCR silicone for the insulation of busbar systems.

Properties

ELASTOSIL[®] R 531/60 /E/2003 was especially designed for following challenges:

- Better low temperature flexibility at -40 °C
- Excellent dielectric strength
- High heat resistance (240 h at 205 °C, 3000 h at 180 °C)
- No cracks, ruptures or other damages after notched bar impact test
- Flexibility / bendability over a wide temperature range (-55 °C to 210 °C)

In case of thermal runaway ELASTOSIL[®] R 531/60 /E/2003 forms a ceramic-like layer with high insulation resistance & good mechanical stability to prevent a short circuit.

Specific features

- Ceramifying
- Flame retardant
- Heat resistant

Technical data

Properties Cured

Cure conditions: 10 min / 135 °C in press

Property	Condition	Value	Method
Appearance	-	orange	-
Hardness Shore A	-	61	DIN ISO 48-4
Density	-	1.36 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	6.5 N/mm ²	ISO 37 type 1
Elongation at break	-	400 %	ISO 37 type 1
Tear strength	-	17 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

- Battery

Processing

Please consider the technical data sheet of the corresponding curing agent to maintain best processing behavior. Please avoid temperatures >30 °C along the production.

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 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 531/60 /E/2003



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

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