

POWERSIL[®] 352 MH

High Consistency Silicone Rubber (HCR/HTV)

POWERSIL[®] 352 MH is a peroxide crosslinking HCR rubber with excellent electrical as well as excellent mechanical properties especially suitable for outdoor applications in T&D.

Properties

- ready-to-use, one-component system
- very good dielectrical properties
- good arc resistance

Specific features

- Resistant to tracking and erosion

Technical data

Properties Cured

Cure conditions: 15 min / 165°C in press ; Postcuring: 4h / 200°C

Property	Condition	Value	Method
Appearance	-	oyster white, tomato red	-
Hardness Shore A	-	40	DIN ISO 48-4
Density	-	1.13 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	10.0 N/mm ²	ISO 37 type 1
Elongation at break	-	800 %	ISO 37 type 1
Tear strength	-	30 N/mm	ASTM D 624 B
Volume resistivity	-	1x10 ¹⁵ Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	2.8	IEC 62631-2-1
Dissipation factor	50 Hz	2x10 ⁻⁴	IEC 62631-2-1
Dielectric strength	-	23 kV/mm	IEC 60243-1
Tracking resistance	-	1A 3.5	IEC 60587
Arc resistance	-	240 s	IEC 61621
Modulus at 100 % elongation	-	1.0 N/mm ²	ISO 37 type 1

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

- Cable Accessories

Application details

POWERSIL[®] 352 MH is especially designed for T&D applications. Because of its excellent mechanical properties POWERSIL[®] 352 MH is prone for use in "cable accessories" applications.

Processing

POWERSIL® 352 MH can be easily processed like other standard HCR grades. A profitable processing is easygoing for POWERSIL® 352 MH is shipped ready-to-use.

Press-moulding and injection-moulding are suitable for POWERSIL® 352 MH for vulcanizing.

Processing temperature depends on e.g. the peroxide used and the design of the articles. After vulcanizing post curing of the parts is highly recommended at a temperature of about 150°C up to 200°C, depending on the thickness.

While post curing be careful to have sufficient ventilation in the ventilating ovens.

For detailed information about processing and primers please refer to our brochure "ELASTOSIL® R HTV Silicone Rubber -Processing".

Packaging and storage

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 POWERSIL® 352 MH



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

Wacker Chemie AG, Gisela-Stein-Strasse 1, 81671 Munich, Germany
productinformation@wacker.com, www.wacker.com

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