

POWERSIL® 3525 MH

High Consistency Silicone Rubber (HCR/HTV)

POWERSIL® 3525 MH silicone rubber is a one-component, ready to use, addition-curing compound that cures to an electrical insulating, highly erosion resistive silicone elastomer.

POWERSIL® 3525 MH shows fast curing in comparison to conventional silicone rubber. Curing time is reduced by (30 ... 50) % depending on the wall thickness and on the available machinery and runner system.

No peroxide decomposition products are released while curing.

Properties

- easy demolding
- excellent dielectric properties
- no unpleasant smell caused by peroxides
- no inhibition by oxygen

Specific features

- Addition Curing
- Resistant to tracking and erosion

Technical data

Properties Cured

Cure conditions: 15 min / 165°C in press

Property	Condition	Value	Method
Appearance	-	pearl orange, blue grey	-
Hardness Shore A	-	23	DIN ISO 48-4
Density	-	1.03 g/cm ³	DIN EN ISO 1183-1 A
Tensile strength	-	9.5 N/mm ²	ISO 37 type 1
Elongation at break	-	1100 %	ISO 37 type 1
Tear strength	-	30 N/mm	ASTM D 624 B
Volume resistivity	-	> 10 ¹⁵ Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	2.7	IEC 62631-2-1
Dissipation factor	50 Hz	20x10 ⁻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

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

- Arresters
- Cable Accessories

Application details

POWERSIL® 3525 MH is especially designed for T&D applications. Because of its excellent mechanical properties POWERSIL® 3525 MH is prone for use in “cable accessories” applications.

Especially thick walled articles can take advantage of the fast curing material.

Processing

POWERSIL® 3525 MH can be easily processed like other standard silicone elastomers. Injection-molding technology is preferred.

Caution: the catalyst of the material can be deactivated if amine, sulfur or phosphorus compounds are present.

Find more information about processing in the brochures that are available at <http://www.wacker.com>.

Packaging and storage

Storage

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.

Caution

Permanent transportation and storage at elevated temperature leads to a partly crosslinking and makes the material unusable.

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® 3525 MH



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

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