

POWERSIL® 190 MH

High Consistency Silicone Rubber (HCR)

POWERSIL® 190 MH is a 1-component, ready to use, peroxide curing silicone rubber compound that is designed specifically for use in high voltage applications. Insulators extruded and molded from POWERSIL® 190 MH possess excellent resistance to arcing and tracking, increasing the reliability and reducing power interruptions.

Properties

- good extrusion qualities
- very good arc resistance
- suitable dielectric properties
- good mechanical properties
- offers good weathering resistance

Specific features

- Excellent hydrophobicity behavior
- Resistant to tracking and erosion

Technical data

Properties Cured

Property	Condition	Value	Method
Density	-	1.58 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	75	DIN ISO 48-4
Tensile strength	-	6.8 N/mm ²	ISO 37 type 1
Elongation at break	-	250 %	ISO 37 type 1
Volume resistivity	-	4x10 ¹⁴ Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	3.7	IEC 62631-2-1
Dissipation factor	50 Hz	4x10 ⁻³	IEC 62631-2-1
Dielectric strength	-	23 kV/mm	IEC 60243-1
Tracking resistance	-	1A 4,5	IEC 60587
Arc resistance	-	> 300 s	IEC 61621
Appearance	-	light grey	-
Tear strength	-	18 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

- Insulators

Application details

POWERSIL® 190 MH silicone rubber is a good choice for manufacturing all types of electrical insulating equipment for outdoor use, e.g. composite insulators, arresters housings, bushings etc..

More information can be found in the brochure "Solutions for the Transmission and Distribution Technology".

Processing

POWERSIL® 190 MH is especially designed for processing by extrusion technologies. But it can also be processed by compression, transfer or injection moulding techniques. For optimal bonding of POWERSIL® 190 MH to FRP substrates the use of Primer G 3243 is recommended.

For detailed information about processing please refer to the brochure ELASTOSIL® HTV-Silicone Rubber - Processing.

Packaging and storage

Storage

Further information for storage: Store in a dry and cool place.

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® 190 MH



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

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