

# POWERSIL® 310 MH

# High Consistency Silicone Rubber (HCR)

POWERSIL® 310 MH is a one-component, ready-to-use, peroxide curing compound that cures to an electrically-insulating, highly erosion resistant silicone elastomer.

## **Properties**

- very good arc resistance
- suitable dielectric properties
- good mechanical properties

#### Specific features

- Excellent hydrophobicity behavior
- High LOI
- Resistant to tracking and erosion

#### Technical data

#### **Properties Cured**

Cure conditions: 15 min / 165°C in press

Property	Condition	Value	Method
Appearance	-	light gray, dark gray	-
Hardness Shore A	-	70	DIN ISO 48-4
Density	-	1.55 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Tensile strength	-	5.0 N/mm²	ISO 37 type 1
Elongation at break	-	200 %	ISO 37 type 1
Tear strength		11 N/mm	ASTM D 624 B
Volume resistivity	-	1x10 <sup>14</sup> Ohmem	IEC 62631-3-1
Permittivity	50 Hz	3.7	IEC 62631-2-1
Dissipation factor	50 Hz	2x10 <sup>-2</sup>	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

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
- Insulators

# **Application details**

POWERSIL® 310 MH is the silicone rubber of choice for the manufacture all types of electrical insulating equipment for outdoor use, e.g. composite insulators, arrester housings, bushings etc.

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

## **Processing**

POWERSIL® 310 MH can be processed using injection molding, transfer or compression molding. For detailed information please refer to our brochure "Solid and Liquid Silicone Rubber, Material and Processing Guidlines".

To achieve a good bond between typically-used materials for electrical insulation equipment and POWERSIL® 310 MH the primer G 3243 should be used.

#### Packaging and storage

#### **Packaging**

This product is available in 20 kg and 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

The containers must be protected against sunlight.

Keep separate from organic rubber and crosslinker chemicals.

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® 310 MH



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

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