

# POWERSIL® 3500 MH

## High Consistency Silicone Rubber (HCR/HTV)

HTV silicone rubber POWERSIL® 3500 MH is an addition-curing one-component compound for the manufacture of press cured articles. The vulcanizates are tracking resistant and show good to very good mechanical properties.

No peroxide split products are released during cure or post cure.

Cure system is significantly faster compared to peroxide curing materials.

Cure time is reduced to 30 - 50 % depending on the wall thickness.

## Properties

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

## Specific features

- Addition Curing
- Resistant to tracking and erosion

## Technical data

### Properties Cured

Property	Condition	Value	Method
Appearance	-	red, light grey	-
Hardness Shore A	-	45	DIN ISO 48-4
Density	-	1.11 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Tensile strength	-	10.0 N/mm <sup>2</sup>	ISO 37 type 1
Elongation at break	-	850 %	ISO 37 type 1
Tear strength	-	30 N/mm	ASTM D 624 B
Compression Set <sup>(1)</sup>	22 h   175 °C	20 %	DIN ISO 815-1 type B method A
Volume resistivity	-	> 10 <sup>15</sup> Ohmcm	IEC 62631-3-1
Permittivity	50 Hz	2.9	IEC 62631-2-1
Dissipation factor	50 Hz	50 x 10 <sup>-4</sup>	IEC 62631-2-1
Dielectric strength	-	23 kV/mm	IEC 60243-1
Tracking resistance	-	≥ 1A 3,5	IEC 60587
Arc resistance	-	> 300 s	IEC 61621
Rebound resilience	-	45 %	ISO 4662

<sup>1</sup>post-cured 4 h / 200 °C

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

The grade is suitable for the manufacture of articles like cable accessories e. g. joints, terminations or single sheds for outdoor applications.

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

- outdoor or indoor cable terminations
- silicone sheds

## Processing

POWERSIL® 3500 MH is to be press cured. The material can be processed on conventional silicone rubber injection molding equipment.

Caution, danger of desactivation!

The Pt-catalyst can be desactivated already via air e.g. by amines, sulfur compounds.

## 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 '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.

Once opened, containers should always be resealed after use to prevent the platinum catalyst from being poisoned by amines, sulphur or phosphorus compounds.

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® 3500 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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