

POWERSIL[®] 590

Moisture Curing Silicone Rubber (RTV-1)

POWERSIL[®] 590 is a purpose-built, thermally stabilized, one-component silicone sealant with a retarded curing.

Properties

- Low viscosity allows easy casting
- Primerless adhesion

Specific features

- 1-component system
- Electrically insulating
- Flowable
- Oxime-cure

Technical data

Properties Cured

Cure conditions: 14d / 23°C / 50% RH

Property	Condition	Value	Method
Color	-	whitish translucent	-
Specific gravity	-	0.98 g/cm ³	ISO 2781
Viscosity (23 °C, 25 s-1)	-	9000	ISO 3219
Volume resistivity	-	10 ¹⁵ Ohmcm	IEC 60093
Permittivity (50 Hz)	-	2.9	IEC 60250
Dissipation factor (50 Hz)	-	3 x 10 ⁻⁴	IEC 60250
Dielectric strength (1 mm)	-	> 23 kV/mm	IEC 60243
Skin formation time (23 °C, 50 % rH)	-	120 min	-

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

- Insulator Coatings

Application details

Protective silicone sealant, designed especially for cable jointing applications.

In the absence of moisture POWERSIL® 590 remains liquid for a long time. Thus the generation of voids is prevented.

Processing

POWERSIL® 590 is preferably applied by casting.

Material cures under the influence of moisture. Make sure that the shell does not contain any water before casting. Keep container tightly closed until usage.

Packaging and storage

Storage

The shelf life of POWERSIL® 590 is up to 24 months when stored between 0 °C and 35 °C in the originally sealed container. The 'Best use before end' date of each batch appears 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.

Safety notes

Provide adequate ventilation during application and avoid prolonged and repeated skin contact.

Comprehensive information are given in the corresponding Material Safety Data Sheet.

QR Code POWERSIL® 590



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

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