

SEMICOSIL[®] 960 CLEAR



Moisture Curing Silicone Rubber (RTV-1)

SEMICOSIL[®] 960 CLEAR is a RTV-1 amine cure silicone rubber dispersion that cures on contact with moisture in the air.

Properties

- Rapid cure
- Excellent electrical properties
- Excellent adhesion to many substrates
- Available in clear or red

Technical data

Properties Uncured

Property	Condition	Value	Method
Specific gravity	25 °C	0.93 g/cm ³	-
Viscosity, dynamic	25 °C	4000 cP	Brookfield
Appearance	-	Clear liquid	-
Content	-	65.0 %	-
Flash point	-	20 °C	Pensky-Marten
Skin	25 °C 50 % r.h	20 min	-
Solid constituent	-	65 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

Cure Condition – 7 days at 25 °C, 50% relative humidity.

Property	Condition	Value	Method
Hardness Shore A	-	25	-
Tensile strength	-	250 psi	-
Elongation at break	-	300 %	-
Volume resistivity	-	1×10^{15} Ohmcm	-
Dielectric constant	1 kHz	2.7	-
Dissipation factor	1 kHz	$3 \times 10^{-4} \tan \delta$	-
Dielectric strength	-	450 V/mil	-
Dielectric strength	-	18 kV/mm	-
Brittle Point	-	-45 °C	-
Coefficient	24 - 100 °C	$8.63 \times 10^{-4} \text{ cm}^3/\text{cm}^3 \text{ } ^\circ\text{F}$	-
Thermal conductivity	-	0.18 W/(m·K)	-

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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

- Adhesives
- Industrial Adhesives

Application details

SEMICOSIL® 960 CLEAR is a conformal coating that forms a tough, rubbery film designed to protect electronic circuits from environmental influences.

Processing

Surface preparation

The surface to be coated should be clean and free of dirt and other contaminants. SEMICOSIL® 960 CLEAR is not recommended for use with acrylic or polycarbonate substrates.

Application

SEMICOSIL® 960 CLEAR can be applied by brushing, dipping or spraying. For spray applications SEMICOSIL® 960 CLEAR may be thinned with dry naphtha or mineral spirits. Application equipment may be cleaned using organic solvents such as mineral spirits. All traces of solvent should be removed from application equipment before using SEMICOSIL® 960 CLEAR. Because SEMICOSIL® 960 CLEAR begins to cure on contact with atmospheric moisture, all containers should be tightly closed when not in use. Dip tanks should be no more than half full and blanketed with a dry, inert gas such as nitrogen. If a skin should form over the surface it may be removed by careful skimming. Spray equipment and brushes should be washed and wiped clean with organic solvents such as naphtha or mineral spirits after use.

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis 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

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code SEMICOSIL® 960 CLEAR



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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