

Technical Data:

Issued: Nov. 2007
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RTV 227

Two-Component RTV Silicone Compound for general use

Product Description

RTV 227 is an easy-to-use two-component RTV silicone compound for casting and encapsulating electrical units to protect against humidity and other contaminations as well as against mechanical shock or vibration.

Features & Benefits

- High flexibility
- Wide temperature range
- Reversion resistance
- Medium viscosity
- Non-toxic and chemically inert

Applications

Potting and Encapsulation of Electric/electronic and optical equipment.

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	RTV 227(A) RTV 227(B)	Silicones Silicones
Appearance/Color	A B	Black Off-white
Viscosity @ 25°C, mPa*s ASTM-D-2393	A B	3500-5500 2000-3000
Density @ 25°C, g/cm³	A B	1.40 ± 0.02 1.40 ± 0.02
Mix Ratio A:B		1:1
Mix Viscosity @ 25°C, mPa*s ASTM-D-2393		2500-4000
Work life, @ 25°C, hr		1 to 1.5
Gel-time, 100g @ 25°C, min		60 to 180

Instructions for use:

Stir compounds RTV 227(Part A) and RTV 227(Part B) thoroughly in their original containers scraping sides and bottom prior to use

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Curing Schedule	12-24hr/25°C or 3-4hr/60°C
Hardness, ASTM-D-2240, Shore A	30-40
Tensile Strength, ASTM-D-412, MPa	0.8
Tensile Elongation, ASTM-D-412, %	45
Service Temperature, °C	-55 to 205

Storage Store products at 15-30°C for maximum shelf life.

Packaging Packaging sizes are available from 1L to 5L jerricans

Shelf Life These products have a shelf life of 6 months in their unopened original jerricans.

Limitation of Liability Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Notes

Certain materials may inhibit the cure of RTV 227 when placed in contact with mixed, uncured rubber. Materials such as amines and amine-cured epoxies, sulfur containing materials and condensation (tin cured) silicones, are some, which may cause inhibition. Even surfaces, which have been in contact with such materials, may cause it. If in doubt, a patch test should be done.