

Technical Data:

Issued: May. 2021
Ver. 2 : September 2021

RTV 212

Two-Component Clear RTV Silicone

Product Description RTV 212 is a two-component moderate viscosity clear RTV silicone compound, designed to seal and protect electronic and optical units with sensitive components against humidity and contamination as well as against mechanical shock or vibration.

Features & Benefits

- Clear
- High temperature resistance
- Accelerated curing at elevated temperature
- Moderate viscosity
- Low water penetration

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 212 A RTV 212 B	Silicones Silicones
Appearance/Color	RTV 212 A RTV 212 B	Clear Clear
Viscosity @25°C, mPa*s ASTM-D-2393	RTV 212 A RTV 212 B	3900-4800 3400-4200
Mix Ratio A:B, (Wt.)		1:1
Gel-time, 50g @ 25°C, min		200-250
Curing Schedule ^{*)}		48 hr /25°C 5.5 hr / 60°C
Hardness, ASTM-D-2240, Shore A		40-45
Tensile Strength, ASTM-D-412, MPa		2.4-3.7
Tensile Elongation, ASTM-D-412, %		50-55

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Volume resistivity, ASTM D-149, ohm*cm	$2.9 * 10^{15}$
Dielectric breakdown strength, ASTM D-257, kV/mm	23
Dielectric constant 100 HZ, ASTM D 150	1.81
Dielectric constant 1 KHZ, ASTM D 150	1.67
Dielectric constant 100 KHZ, ASTM D 150	1.65
Dissipation factor 100 HZ, ASTM D 150	0.0021
Dissipation factor 1 KHZ, ASTM D 150	0.0028
Dissipation factor 100 KHZ, ASTM D 150	0.0043
Refractive Index, 632.8nm	1.4104

*) Curing can be accelerated at elevated temperatures

Storage	Store products at 10-35°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 212 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.

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