

Momentive Performance Materials RTV31 Silicone Rubber Compound for High Temperature, Red

Category: Polymer, Adhesive, Thermoset, Silicone, Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

RTV31, RTV60 and RTV88 silicone rubber compounds are high temperature two-part silicone elastomers. They are supplied ready-to-use with a base compound and DEBT (deputy tin deflagrate) as the standard curing agent. DEBT is suitable for most applications, however other catalysts are available to facilitate deep section cure, faster cure and automated mixing.RTV31, RTV60 and RTV88 silicone rubber compounds differ primarily in viscosity in the uncured state. Mechanical and electrical properties for 0.5 wt% DEBT curing agent added, cured 7 days at 25°C and 50% relative humidity. Key Performance Properties: Variable work times and cure rates by adjusting the amount and type of curing agentRoom temperature cureComposition free of solvents and solvent odorExcellent adhesion capabilities with primerExcellent release propertiesRetention of elastomeric properties at temperatures from -54°C(-65°F) up to 260°C (500°F) continuously, and up to 316°C (600°F) for short periods of timeApplications: Potting and encapsulating electric motors and transformersFabrication of rubber partsCasting molds for low-melting point metalsRelease applications such as rubber rollersThermal insulationGE Silicones became a part of Momentive Performance Materials in 2006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Momentive-Performance-Materials-RTV31-Silicone-Rubber-Compound-for-High-Temperature-Red.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	
Viscosity	25000 cP	25000 cP	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	54	54	
Tensile Strength, Ultimate	5.98 MPa	868 psi	
Elongation at Break	170 %	170 %	
Tear Strength	4.90 kN/m	28.0 pli	

Thermal Properties	Metric	English	Comments
	200 Âμm/m-°C	111 µin/in-°F	
CTE, linear	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.46 J/g-°C	0.350 BTU/lb-°F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft²- °F	



Thermal Properties emperature, Air	Metric 3	English	Comments
Brittleness Temperature	-54.0 °C	-65.2 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+14 ohm-cm	1.60e+14 ohm-cm	
Dielectric Constant	4.4	4.4	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	
Dissipation Factor	0.030	0.030	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour 0.5% DBT curing agent added @Temperature 77.0 ŰF	
	@Temperature 25.0 °C		0.5% DBT curing agent added

Descriptive Properties	Value	Comments
Color	Red	
Consistency	Pourable	
Work Time	2 hours	At 25°C, 0.5% DBT curing agent added

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