

Sumitomo Bakelite North America SI 9002J-1 Silicone Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Silicone , Silicone, Molded, Glass Fiber Filled

Material Notes:

SI 9002J-1 is a short fiberglass reinforced silicone molding compound, which offers moderate strength properties, and dimensional stability and excellent long-term thermal stability at elevated temperatures..Information provided by Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-SI-9002J-1-Silicone-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	Powder Density; ASTM D1895
Density	2.10 g/cc	0.0759 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	48 hr @ 50°C; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D2583
Tensile Strength at Break	27.0 MPa	3920 psi	ASTM D638
Flexural Strength	52.0 MPa	7540 psi	At Rupture; ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Compressive Strength	88.0 MPa	12800 psi	ASTM D695
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9	3.9	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	6.50 kV/mm	165 kV/in	60Hz, Step-by-Step, wet; ASTM D149
	9.80 kV/mm	249 kV/in	60Hz, Short Time, wet; ASTM D149
Dissipation Factor	0.020	0.020	

Electrical Properties	@Frequency 1.00e+6 Metric	@Frequency 1.00e+6 English	Comments
Arc Resistance	200 sec	200 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Red	
Form	Granular	
Molding Method	Compression, transfer	

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