

Sumitomo Bakelite North America SI 9002N-1 Silicone Compound

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

Material Notes:

Short fibreglass reinforced silicone molding compound which offers moderate strength properties, dimensional stability, and excellent long-term thermal stability at elevated temperatures. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Bulk Density	0.90 g/cc	0.033 lb/in ³	Powder Density; ASTM D1895
Density	2.1 g/cc	0.076 lb/in ³	Relative Density; ASTM D792
Water Absorption	0.3 %	0.3 %	48 hr @ 50 ^o C; ASTM D570
Linear Mold Shrinkage	0.002 - 0.004 cm/cm	0.002 - 0.004 in/in	Compression Molding; 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
CTE, linear, Parallel to Flow	33.0 $\mu\text{m/m}\cdot\text{C}^{\circ}$ @Temperature 20.0 C°	18.3 $\mu\text{in/in}\cdot\text{F}^{\circ}$ @Temperature 68.0 F°	ASTM E-831
Thermal Conductivity	0.810 W/m-K	5.62 BTU-in/hr-ft ² - F°	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 282 \text{ C}^{\circ}$	$\geq 540 \text{ F}^{\circ}$	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9 @Frequency 1e+6 Hz	3.9 @Frequency 1e+6 Hz	Wet; ASTM D150

Dielectric Strength Electrical Properties	6.50 kV/mm Metric	165 kV/in English	60Hz, Step-by-Step, wet; ASTM D149 Comments
	9.80 kV/mm	249 kV/in	60Hz, Short Time, wet; ASTM D149
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	Wet; ASTM D150
Arc Resistance	200 sec	200 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Gray, Red	
Form	Granular	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer, injection	

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