

Sumitomo Bakelite North America SI 9550 Silicone Compound

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

Material Notes:

SI 9550 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 North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-SI-9550-Silicone-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1895
Density	1.89 g/cc	0.0683 lb/in ³	ASTM D792
Water Absorption	0.090 % @Temperature 23.0 °C, Time 86400 sec	0.090 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D2583
Tensile Strength at Break	37.0 MPa	5370 psi	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	at rupture; ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	88.0 MPa	12800 psi	ASTM D695
Izod Impact, Notched	0.200 J/cm	0.375 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 Strength	8.10 kV/mm @Frequency 60.0 Hz	206 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	13.3 kV/mm @Frequency 60.0 Hz	338 kV/in @Frequency 60.0 Hz	short time, wet; ASTM D149

Arc Resistance Electrical Properties	240 sec Metric	240 sec English	ASTM D495 Comments
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Descriptive Properties	Value	Comments
Color	Red, Black	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

Contact Songhan Plastic Technology Co.,Ltd.

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