

Sumitomo Bakelite North America SI 9041A Silicone Compound

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

Material Notes:

SI 9041A is a long fiberglass reinforced silicone molding compound, which exhibits excellent high temperature properties in addition to good molding characteristics for transfer and compression molding. Meets the requirements of ASTM D5948 Type MSI-30 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-9041A-Silicone-Compound.php

Physical Properties	Metric	English	Comments
Density	1.92 g/cc	0.0694 lb/in ³	ASTM D792
Water Absorption	0.24 % @Temperature 50.0 Â°C, Time 173000 sec	0.24 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	at rupture; ASTM D790
Flexural Modulus	14.7 GPa	2130 ksi	ASTM D790
Compressive Strength	61.0 MPa	8850 psi	ASTM D695
Izod Impact, Notched	3.93 J/cm	7.36 ft-lb/in	ASTM D256

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	3.40 kV/mm @Frequency 60.0 Hz	86.4 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	4.90 kV/mm	124 kV/in	short time, wet; ASTM D149

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
Dissipation Factor	0.022	0.022	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	189 sec	189 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Red	
Form	Coarse Flake	
Molding Method	Compression	
	Transfer	

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