

Sumitomo Bakelite North America SI 9045C Silicone Compound

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

Material Notes:

Long fiberglass and graphite filled silicone molding compound which offers moderate strength properties, high impact resistance, and excellent 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-9045C-Silicone-Compound.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	Relative Density; ASTM D792
Water Absorption	0.45 %	0.45 %	48 hr @ 50 ^o C; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D2583
Tensile Strength at Break	17.0 MPa	2470 psi	ASTM D638
Flexural Strength	52.0 MPa	7540 psi	At Rupture; ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	55.0 MPa	7980 psi	ASTM D695
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM D256

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

Descriptive Properties	Value	Comments
Color	Black	
Form	Coarse Flake - 1/4" Chop	
Main Filler	Glass Fiber & Graphite	
Molding Method	Compression, transfer	

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