

Sumitomo Silicone SI 9045C

Silicone

Sumitomo Bakelite North America, Inc.

Message:

SI 9045C is a long fiberglass and graphite filled silicone molding compound, which offers moderate strength properties, high impact resistance, and excellent long-term thermal stability at elevated temperatures.

General Information	
Filler / Reinforcement	Glass Fiber
Additive	Graphite Powder Lubricant
Features	Good Strength
	Good Thermal Stability
	High Impact Resistance
Appearance	Black
Forms	Flakes
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.25	%	ASTM D570
Water Absorption - 48 hr (50°C)	0.45	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Compression Molded)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	17.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	11000	MPa	ASTM D790
Flexural Strength (Break)	52.0	MPa	ASTM D790
Compressive Strength	55.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 282	°C	ASTM D648

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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