

Sumitomo Silicone SI 9002J-1

Silicone

Sumitomo Bakelite North America, Inc.

Message:

SI 9002J-1 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.

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
	Good Strength
	Good Thermal Stability
Appearance	Red
Forms	Granules
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.10	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.30	%	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)	27.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	14000	MPa	ASTM D790
Flexural Strength (Break)	52.0	MPa	ASTM D790
Compressive Strength	88.0	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	22	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 282	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	9.8	kV/mm	
-- ³	6.5	kV/mm	

Dielectric Constant ⁴ (1 MHz)	3.90		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.020		ASTM D150
Arc Resistance	200	sec	ASTM D495

NOTE

- | | |
|----|-------------------------|
| 1. | Wet, 60 Hz |
| 2. | Method A (Short-Time) |
| 3. | Method B (Step-by-Step) |
| 4. | Wet |
| 5. | Wet |

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