

SI 9002J-1

Description 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

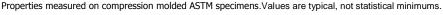
elevated temperatures.

Available colors Red

Available molding grades Compression, Transfer

Form Granular

Properties			International Units		English Units		Method
Physical	Specific Gravity		2.1		2.1		ASTM D792
	Apparent (Powder) density		0.9	g/cm³		lb/gal	ASTM D1895
	Molding shrinkage		0.2-0.4	%	0.002- 0.004	in/in	ASTM D955
	Post shrinkage		-	%	-	in/in	ASTM D955
	Water absorption	24 hour	-	%	-	%	ASTM D570
		48 hour	0.3	%	0.3	%	ASTM D570
Thermal	Temperature of	As Molded	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	deflection under load	Post Baked	>282	°C at 1.8 MPa	>555	°F at 264 psi	ASTM D648A
	Thermal Conductivity		-	W/mK	-	W/mK	ASTM C518
	UL Temperature Index		-	°C	-	°F	UL 746B
	UL-flammability	3.2 mm	-		-		UL 94
		1,6 mm	-		-		UL 94
	Coefficient of linear	parallel	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	thermal expansion	perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
Mechanical	Flexural strength		52	MPa	7,500	psi	ASTM D790
	Flexural modulus		14	GPa	2.0	Mpsi	ASTM D790
	Tensile strength		27	MPa	4,000	psi	ASTM D638
	Izod impact strength, notched		22	J/m	0.4	ft lb/in	ASTM D256A
	Compressive strength		90	MPa	13,000	Psi	ASTM D695
	Rockwell Hardness	M Scale	90		90		A O.T. A D.705
		E Scale	-		-		ASTM D785
Electrical	Dielectric Constant, I MHz, wet		3.9		3.9		ASTM D150
	Dissipation Factor, 1 MHz, wet		0.02		0.02		ASTM D150
	Arc Resistance		200	Seconds	200	Seconds	ASTM D495
	Dielectric strength,	ST, dry/wet	-/9.8	kV/mm	-/250	V/mil	ASTM D149
Ξ	60 Hz	SS, dry/wet	-/6.5	kV/mm	-/165	V/mil	ASTM D149
	Tracking resistance		-	V		V	ASTM D3638 (IEC 112)



Contact your Sumitomo Bakelite representative for specifications and post baking recommendations.

ST = short time. SS = step-by-step. Wet = immersed in H_20 for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

RoHS: SI 9002J-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: SI 9002J-1 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : SI 9002J-1 does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA..

Revision Date: 7/7/2014. Shelf life 6 months when stored at 40 $^{\circ}\text{F}$ maximum.

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