



## 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

SILICONE

Properties		International Units		English Units		Method	
Physical	Specific Gravity	<b>2.1</b>		<b>2.1</b>		ASTM D792	
	Apparent (Powder) density	<b>0.9</b>	g/cm <sup>3</sup>		lb/gal	ASTM D1895	
	Molding shrinkage	<b>0.2-0.4</b>	%	<b>0.002-0.004</b>	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption		%		%	ASTM D570	
	24 hour	-		-		ASTM D570	
	48 hour	<b>0.3</b>	%	<b>0.3</b>	%	ASTM D570	
Thermal	Temperature of deflection under load		°C at 1.8 MPa		°F at 264 psi	ASTM D648A	
		As Molded	-		-		
		Post Baked	<b>&gt;282</b>	°C at 1.8 MPa	<b>&gt;555</b>	°F at 264 psi	ASTM D648A
	Thermal Conductivity		-	W/mK	-	W/mK	ASTM C518
	UL Temperature Index		-	°C	-	°F	UL 746B
	UL-flammability		-		-		UL 94
	3.2 mm	-		-		UL 94	
	1,6 mm	-		-		UL 94	
Mechanical	Coefficient of linear thermal expansion		10 E-6/°C		10 E-6/°F	ASTM E831	
		parallel	-		-		
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength		<b>52</b>	MPa	<b>7,500</b>	psi	ASTM D790
	Flexural modulus		<b>14</b>	GPa	<b>2.0</b>	Mpsi	ASTM D790
	Tensile strength		<b>27</b>	MPa	<b>4,000</b>	psi	ASTM D638
	Izod impact strength, notched		<b>22</b>	J/m	<b>0.4</b>	ft lb/in	ASTM D256A
Electrical	Compressive strength		<b>90</b>	MPa	<b>13,000</b>	Psi	ASTM D695
	Rockwell Hardness		<b>90</b>		<b>90</b>		ASTM D785
		M Scale	-		-		
		E Scale	-		-		
Electrical	Dielectric Constant, 1 MHz, wet		<b>3.9</b>		<b>3.9</b>		ASTM D150
	Dissipation Factor, 1 MHz, wet		<b>0.02</b>		<b>0.02</b>		ASTM D150
	Arc Resistance		<b>200</b>	Seconds	<b>200</b>	Seconds	ASTM D495
	Dielectric strength, 60 Hz		<b>-19.8</b>	kV/mm	<b>-1250</b>	V/mil	ASTM D149
		ST, dry/wet					
	SS, dry/wet		<b>-16.5</b>	kV/mm	<b>-1165</b>	V/mil	ASTM D149
Tracking resistance		-	V	-	V	ASTM D3638 (IEC 112)	

Properties measured on compression molded ASTM specimens. Values are typical, not statistical minimums.

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

ST = short time. SS = step-by-step. Wet = immersed in H<sub>2</sub>O 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 °F maximum.

The information presented in this document is provided in good faith, but no warranty is given or is to be implied regarding its accuracy or relevance to any particular application. Users must satisfy themselves regarding the suitability and safety of their use of the information and products in the application concerned.

Sumitomo Bakelite North America, Inc.  
24 Mill Street, Manchester, CT 06042-2316, USA  
Tel. 1-800-243-7158, Fax 1-860-646-5503

Sumitomo Bakelite North America, Inc.  
Corporate Office  
46820 Magellan Drive, Suite C, Novi, MI 48377  
Tel. 1-248-313-7000, Fax 1-248-313-7027

[www.sbhpp.com](http://www.sbhpp.com)