



SI 9002N-1

Description

SI 9002N-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/cm ³	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		%		% ASTM D570
Thermal					
	24 hour	-	%	-	% ASTM D570
	48 hour	0.3	%	0.3	% ASTM D570
	As Molded	-	°C at 1.8 MPa	-	°F at 264 psi ASTM D648A
	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
	3.2 mm	-		-	UL 94
	1,6 mm	-		-	UL 94
	parallel	-	10 E-6/°C	-	10 E-6/°F ASTM E831
Mechanical	perpendicular	-	10 E-6/°C	-	10 E-6/°F ASTM E831
	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	ASTM D785
Electrical	E Scale	-		-	
	Dielectric Constant, 1 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
	60 Hz SS, dry/wet	-6.5	kV/mm	-165	V/mil ASTM D149
Electrical	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 H₂O 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 9002N-1 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

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

REACH/SVHC : SI 9002N-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