



SI 9550

Description	SI 9550 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, Black
Available molding grades	Compression, Transfer, Injection
Form	Granular

SILICONE

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.89		1.89		ASTM D792	
	Apparent (Powder) density	0.9	g/cm ³		lb/gal	ASTM D1895	
	Molding shrinkage	0.1-0.3	%	0.001-0.003	in/in	ASTM D955	
	Post shrinkage	-	%	-	in/in	ASTM D955	
	Water absorption		%		%	ASTM D570	
	24 hour	0.09	%	0.09	%	ASTM D570	
	48 hour	-	%	-	%	ASTM D570	
Thermal	Temperature of deflection under load		°C at 1.8 MPa		°F at 264 psi	ASTM D648A	
		As Molded	-		-	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
	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	-		-	ASTM E831	
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural strength	65	MPa	9,500	psi	ASTM D790	
	Flexural modulus	13	GPa	1.9	Mpsi	ASTM D790	
	Tensile strength	38	MPa	5,500	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	75		75		ASTM D785	
	E Scale	-		-			
Electrical	Dielectric Constant, 1 MHz, wet	-		-		ASTM D150	
	Dissipation Factor, 1 MHz, wet	-		-		ASTM D150	
	Arc Resistance	240	Seconds	240	Seconds	ASTM D495	
	Dielectric strength,		kV/mm		V/mil	ASTM D149	
	60 Hz	-/13.3	kV/mm	-/340	V/mil	ASTM D149	
Tracking resistance	-/8.1	V	-/200	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 9550 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: SI 9550 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : SI 9550 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.

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