

# Sumitomo Silicone SI 9550

## Silicone

Sumitomo Bakelite North America, Inc.

### Message:

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.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.89	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.90	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.090	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	37.0	MPa	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength (Break)	65.0	MPa	ASTM D790
Compressive Strength	88.0	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	> 282	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
-- <sup>2</sup>	13	kV/mm	

-- <sup>3</sup>	8.1	kV/mm	
Arc Resistance	240	sec	ASTM D495
NOTE			
1.	60 Hz, Wet		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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Recommended distributors for this material

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