

Epiall® 1908M-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

Epiall 1908M-1 is a short glass fiber reinforced epoxy molding compound with excellent dimensional stability, good strength properties, and good electrical insulation properties.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.98	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30 to 0.50	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	72		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	62.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15000	MPa	ASTM D790
Flexural Strength (Break)	130	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	26	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 282	°C	ASTM D648
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149

Dielectric Constant ¹ (1 MHz)	4.50		ASTM D2520
Dissipation Factor ² (1 MHz)	0.020		ASTM D150
Arc Resistance	185	sec	ASTM D495

NOTE			
1.	Wet		
2.	Wet		

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