

# Sumitomo Epoxy E 3812M-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 3812M-1 is a mineral and short fiberglass filled epoxy molding compound for low pressure encapsulation molding, featuring excellent dimensional stability, good thermal shock resistance, and good electrical insulation properties.

General Information	
Filler / Reinforcement	Glass Fiber Mineral
Features	Electrically Insulating Good Dimensional Stability Good Thermal Shock Resistance
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.95	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow	0.35 to 0.50	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	58.0	MPa	ASTM D638
Flexural Modulus	13000	MPa	ASTM D790
Flexural Strength (Break)	94.0	MPa	ASTM D790
Compressive Strength	213	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	16	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	> 280	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength <sup>1</sup>			ASTM D149
-- <sup>2</sup>	16	kV/mm	
-- <sup>3</sup>	14	kV/mm	
Dielectric Constant <sup>4</sup> (1 MHz)	3.80		ASTM D150
Dissipation Factor <sup>5</sup> (1 MHz)	0.020		ASTM D150

Arc Resistance	178	sec	ASTM D495
NOTE			
1.	60 Hz, Wet		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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