

Sumitomo Epoxy E 8398

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8398 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability, good electrical insulation properties, and good strength.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.50	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	76.0	MPa	ASTM D638
Flexural Modulus	17000	MPa	ASTM D790
Flexural Strength (Break)	140	MPa	ASTM D790
Compressive Strength	280	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	19	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	220	°C	
1.8 MPa, Annealed	> 282	°C	
CLTE - Flow	2.4E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.84	W/m/K	ASTM C518
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength			ASTM D149

--	22	kV/mm	
--	21	kV/mm	
--	16	kV/mm	
--	15	kV/mm	
Dielectric Constant ¹ (1 MHz)	3.90		ASTM D150
Dissipation Factor ² (1 MHz)	0.014		ASTM D150
Arc Resistance	180	sec	ASTM D495
NOTE			
1.	Wet		
2.	Wet		

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