

Sumitomo Epoxy E 8940SG

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

E 8940SG is a mineral reinforced epoxy molding compound, formulated for the encapsulation of electronic devices requiring high quality, exceptional reliability, and outstanding moldability. Typical applications include passive electronics, RC networks and rectifiers.

General Information	
UL YellowCard	E123472-221415
Filler / Reinforcement	Mineral
Features	Good Moldability
Uses	Electrical/Electronic Applications
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Encapsulating Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30 to 0.50	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.10	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	86.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15200	MPa	ASTM D790
Flexural Strength (Break)	120	MPa	ASTM D790
Compressive Strength	240	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	19	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	> 225	°C	ASTM D648
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.72	W/m/K	ASTM C177

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant ¹ (1 MHz)	3.00		ASTM D2520
Dissipation Factor ² (1 MHz)	6.0E-3		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	Wet		
2.	Wet		

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