

# Sumitomo Epoxy E 2748A

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

## Message:

E 2748A is a glass reinforced epoxy molding compound, with good impact strength combined with soft flow for the encapsulation of devices requiring high quality and thermal shock resistance.

General Information	
UL YellowCard	E123472-100085725
Filler / Reinforcement	Glass Fiber
Features	Good Flow
	Good Impact Resistance
	Good Thermal Shock Resistance
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Encapsulating
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.70	g/cm <sup>3</sup>	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.40 to 0.60	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.20	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	76.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	12400	MPa	ASTM D790
Flexural Strength (Break)	142	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	29	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, Compression Molded)	250	°C	ASTM D648
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149
Dielectric Constant <sup>1</sup> (1 MHz)	4.50		ASTM D2520

Dissipation Factor <sup>2</sup> (1 MHz)	0.010		ASTM D150
Arc Resistance	180	sec	ASTM D495
NOTE			
1.	Wet		
2.	Wet		

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