

Epiall® 1908-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

Epiall 1908-1 is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties that meets the requirements of ASTM D5948 Type GEI-5.

General Information			
UL YellowCard	E123472-100085720		
Filler / Reinforcement	Glass Fiber		
Features	Electrically Insulating		
	Good Dimensional Stability		
	Good Strength		
Agency Ratings	ASTM D 5948, Type GEI-5		
Appearance	Black		
	Blue		
	Green		
	Grey		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.92	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.20 to 0.40	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	80.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15100	MPa	ASTM D790
Flexural Strength (Break)	130	MPa	ASTM D790
Compressive Strength	240	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	37	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	3.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.73	W/m/K	ASTM C177
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	14	kV/mm	
-- ³	13	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.10		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.020		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.40 mm)	V-0		UL 94
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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