

Epiall® 1914A

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

Epiall 1914A is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties.

General Information			
UL YellowCard	E123472-100085722		
Filler / Reinforcement	Glass Fiber		
Features	Electrically Insulating		
	Good Dimensional Stability		
	Good Strength		
Appearance	Black		
	Green		
Forms	Granules		
Processing Method	Compression Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.99	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
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	63		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	91.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	22000	MPa	ASTM D790
Flexural Strength (Break)	135	MPa	ASTM D790
Compressive Strength	237	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	38	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Compression Molded	280	°C	

1.8 MPa, Annealed, Compression Molded	> 282	°C	
CLTE			ASTM E831
Flow	1.4E-5	cm/cm/°C	
Transverse	3.3E-5	cm/cm/°C	
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	13	kV/mm	
-- ³	12	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.50		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.020		ASTM D150
Arc Resistance	190	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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