

Epiall® 1904B-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

Epiall 1904B-1 is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation properties.

General Information			
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	2.09	g/cm ³	ASTM D792
Apparent Density	0.90	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.10 to 0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	90.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	23000	MPa	ASTM D790
Flexural Strength (Break)	140	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	33	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	
Electrical	Nominal Value	Unit	Test Method

Dielectric Strength ¹			ASTM D149
-- ²	15	kV/mm	
-- ³	14	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.60		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.035		ASTM D150
Arc Resistance	189	sec	ASTM D495

NOTE

- | | |
|----|-------------------------|
| 1. | Wet, 60 Hz |
| 2. | Method A (Short-Time) |
| 3. | Method B (Step-by-Step) |
| 4. | Wet |
| 5. | Wet |

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