

Epiall® 1960B-1

Epoxy; Epoxide

Sumitomo Bakelite North America, Inc.

Message:

Epiall 1960B-1 is a mineral and short fiberglass filled epoxy compound, formulated for the encapsulation of passive electronic devices.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Encapsulating		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.76	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Compression Molded)	0.30 to 0.50	%	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)	12400	MPa	ASTM D790
Flexural Strength (Break)	115	MPa	ASTM D790
Compressive Strength	242	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)	275	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	15	kV/mm	
-- ³	13	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.00		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.019		ASTM D150
Arc Resistance	180	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

