

Sumitomo Phenolic XB-22

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

XB-22 is a fiberglass reinforced phenolic novolac molding compound, with excellent dimensional stability and good strength at elevated temperatures. This material is formulated for low thermal conductivity.

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
	High Temperature Strength
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Apparent Density	0.70	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.25	%	ASTM D955
Water Absorption (24 hr)	0.11	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale, Compression Molded)	83		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	85.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	10300	MPa	ASTM D790
Flexural Strength (Compression Molded)	140	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695
Flexural Strain at Break	1.7	%	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	40	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, Compression Molded	170	°C	
1.8 MPa, Annealed, Compression Molded	> 282	°C	

CLTE - Flow	1.3E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.36	W/m/K	ASTM C177
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	15	kV/mm	
-- ³	12	kV/mm	
Arc Resistance	50.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	V-1		
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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