

Sumitomo Bakelite North America XB-22 Fiberglass Reinforced Phenolic Novolac

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

Material Notes:

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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-XB-22-Fiberglass-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength at Break	85.0 MPa	12300 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Compressive Strength	210 MPa	30500 psi	ASTM D695
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	ASTM C518
Maximum Service Temperature, Air	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	170 $\text{Å}^\circ\text{C}$	338 $\text{Å}^\circ\text{F}$	As Molded; ASTM D648A
	$\geq 282 \text{ Å}^\circ\text{C}$	$\geq 540 \text{ Å}^\circ\text{F}$	Post Baked; ASTM D648A
	HB	HB	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-1	V-1	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.5 kV/mm	292 kV/in	step-by-step, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	15.0 kV/mm	381 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	50 sec	50 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China