

Sumitomo Bakelite North America FM 4005X4648 Fiberglass Reinforced Phenolic Novolac

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

Material Notes:

FM 4005X4648 a fiberglass reinforced phenolic novolac molding compound formulated to increase thermal conductivity and electrical conductance. This material also exhibits low post mold shrinkage. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-4005X4648-Fiberglass-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	Powder; ASTM D1895
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D-792
Water Absorption	0.070 %	0.070 %	24 hour; ASTM D570
	0.20 %	0.20 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	34.0 MPa	4930 psi	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Strength	137 MPa	19900 psi	ASTM D695
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.22 W/m-K	8.47 BTU-in/hr-ft ² - °F	ASTM C518
Maximum Service Temperature, Air	150 °C	302 °F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	As Molded; ASTM D648A
	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Descriptive Properties	Value	Comments
Available Molding Grades	Compression, Transfer, Injection	
Color	Black	
Form	Granular	

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