

Sumitomo Bakelite North America FM 4005 Fiberglass Reinforced Phenolic Novolac

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

Material Notes:

FM 4005 is a fiberglass reinforced phenolic novolac molding compound, with excellent dimensional stability and good strength at elevated temperatures. This material is compliant with the specifications of ASTM D 5948, Type MFH. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Powder; ASTM D1895
Density	1.77 g/cc	0.0639 lb/in ³	ASTM D-792
Water Absorption	0.23 %	0.23 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Strength	255 MPa	37000 psi	ASTM D695
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 µm/m-°C	10.6 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	150 °C	302 °F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	8.00 kV/mm	203 kV/in	60 Hz, wet, SS; ASTM D149
	10.0 kV/mm	254 kV/in	ST; ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495

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

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