

Sumitomo Bakelite North America FM 4017F Fiberglass and Mineral Reinforced Phenolic

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

Material Notes:

FM 4017F is a fiberglass and mineral reinforced phenolic molding compound, with excellent dimensional stability and good strength at elevated temperatures. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-4017F-Fiberglass-and-Mineral-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Powder; ASTM D1895
Density	1.81 g/cc	0.0654 lb/in ³	ASTM D-792
Water Absorption	0.070 %	0.070 %	24 hour; ASTM D570
	0.15 %	0.15 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	125	125	ASTM D785
Tensile Strength, Ultimate	72.0 MPa	10400 psi	ASTM D638
Flexural Strength	135 MPa	19600 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Strength	285 MPa	41300 psi	ASTM D695
Izod Impact, Notched	0.380 J/cm	0.712 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	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 kV/mm	351 kV/in	60 Hz, wet, SS; ASTM D149
	14.8 kV/mm	376 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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