

Sumitomo Bakelite North America FM 3000 Cellulose Reinforced Phenolic Novolac

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

Material Notes:

FM 3000 is a self-lubricated cellulose reinforced phenolic molding compound, modified for applications requiring reduced friction and low wear. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-3000-Cellulose-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.450 g/cc	0.0163 lb/in ³	Powder; ASTM D1895
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D-792
Water Absorption	0.50 %	0.50 %	24 hour; ASTM D570
	1.2 %	1.2 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	115	115	ASTM D785
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM D790
Compressive Strength	105 MPa	15200 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 µm/m-°C @Temperature 20.0 °C	14.4 µin/in-°F @Temperature 68.0 °F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	As Molded; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Strength	7.90 kV/mm	201 kV/in	60 Hz, wet, SS; ASTM D149
	10.2 kV/mm	259 kV/in	ST; ASTM D149

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

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