

Sumitomo Bakelite North America FM 3001 Cellulose Reinforced Phenolic Novolac

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

Material Notes:

FM 3001 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-3001-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	1.41 g/cc	0.0509 lb/in ³	ASTM D-792
Water Absorption	0.60 %	0.60 %	24 hour; ASTM D570
	1.2 %	1.2 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	115	115	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Compressive Strength	160 MPa	23200 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Åµm/m-Å°C	13.3 Åµin/in-Å°F	ASTM E831
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	180 Å°C	356 Å°F	As Molded; ASTM D648A

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

Descriptive Properties Form	Value Granular	Comments
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