

Sumitomo Bakelite North America FM 21386 Synthetic Fiber Reinforced Phenolic Novolac

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

Material Notes:

FM 21386 is a single stage phenolic molding compound reinforced with synthetic fiber in pellet form. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-21386-Synthetic-Fiber-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	ASTM D1895
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.50 %	0.50 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ASTM D638
Flexural Strength	62.0 MPa	8990 psi	at rupture; ASTM D790
Flexural Modulus	5.00 GPa	725 ksi	ASTM D790
Compressive Strength	172 MPa	24900 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	145 Â°C	293 Â°F	As Molded; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.8	4.8	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	11.0 kV/mm	279 kV/in	step-by-step, wet; ASTM D149

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
	13.7 kV/mm	348 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.020	0.020	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellet	
Molding Method	Compression	
	Injection	
	Transfer	

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