

Sumitomo Bakelite North America FM 4008 Fiberglass and Mineral Reinforced Phenolic Resole

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

FM 4008 is a fiberglass and mineral reinforced phenolic resole 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-4008-Fiberglass-and-Mineral-Reinforced-Phenolic-Resole.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Powder; ASTM D1895
Density	1.80 g/cc	0.0650 lb/in ³	ASTM D-792
Water Absorption	0.20 %	0.20 %	24 hour; ASTM D570
	0.35 %	0.35 %	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	80	80	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Compressive Strength	240 MPa	34800 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	19.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	10.6 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	265 $^{\circ}\text{C}$	509 $^{\circ}\text{F}$	As Molded; ASTM D648A
	$\geq 282^{\circ}\text{C}$	$\geq 540^{\circ}\text{F}$	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Arc Resistance	180 sec	180 sec	ASTM D495

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China