

## Sumitomo Bakelite North America FM 7700P Fiberglass and Mineral Reinforced Phenolic Novolac

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

### Material Notes:

FM 7700P is a two-stage phenolic molding compound reinforced with cotton fabric in pellet form. FM-7700P is recommended to customers desiring approval under ASTM D-5948-96, Type CFI-20. (Replaces Military Specification MIL-M-14H.) Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-FM-7700P-Fiberglass-and-Mineral-Reinforced-Phenolic-Novolac.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-7700P-Fiberglass-and-Mineral-Reinforced-Phenolic-Novolac.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.300 g/cc	0.0108 lb/in <sup>3</sup>	Powder; ASTM D1895
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D-792
Water Absorption	0.60 %	0.60 %	24 hour; ASTM D570
	2.2 %	2.2 %	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	105	105	ASTM D785
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Strength	165 MPa	23900 psi	ASTM D695
Izod Impact, Notched	1.03 J/cm	1.93 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	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)	180 °C	356 °F	As Molded; ASTM D648A
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Strength	3.10 kV/mm	78.7 kV/in	60 Hz, wet, SS; ASTM D149
	5.50 kV/mm	140 kV/in	ST; ASTM D149

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

## Contact Songhan Plastic Technology Co.,Ltd.

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