

## Sumitomo Bakelite North America FM 1132P Cellulose Reinforced Phenolic Novolac

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

### Material Notes:

FM 1132P is a two-stage phenolic molding compound reinforced with cellulose in pellet form. FM-1132P is recommended to customers desiring approval under ASTM D-5948-96, Type CFI-10. (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-1132P-Cellulose-Reinforced-Phenolic-Novolac.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FM-1132P-Cellulose-Reinforced-Phenolic-Novolac.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.400 g/cc	0.0145 lb/in <sup>3</sup>	Powder; ASTM D1895
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ASTM D-792
Water Absorption	0.60 %	0.60 %	24 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	45.0 MPa	6530 psi	ASTM D638
Flexural Strength	70.0 MPa	10200 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Strength	193 MPa	28000 psi	ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
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 @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	4.80 kV/mm	122 kV/in	60 Hz, wet, SS; ASTM D149

Electrical Properties	7.20 kV/mm Metric	183 kV/in English	ST-ASTM D149 Comments
Descriptive Properties	Value		Comments
Available Molding Grades	Compression, Transfer, Injection		
Color	Black		
Form	Pellet		

## Contact Songhan Plastic Technology Co.,Ltd.

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