

Sumitomo Bakelite North America FS-80-P-1 Long-Glass Reinforced Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short Glass Fiber Filled , Filled/Reinforced Thermoset

Material Notes:

Isophthalate DAP Resin Isomer. Used for critical, high-performance military and commercial electrical components where long-term reliability is demanded. Meets the requirements of ASTM D5948 Type GII-30F. Information provided by Sumitomo Bakelite North America, Inc.

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http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FS-80-P-1-Long-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Apparent Bulk Density	0.290 g/cc	0.0105 lb/in ³	
Water Absorption	0.30 %	0.30 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	88.0 MPa	12800 psi	ASTM D638
Flexural Yield Strength	143 MPa	20700 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	3.50 J/cm	6.56 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.335 W/m-K	2.32 BTU-in/hr-ft ² -°F	ASTM F433
Maximum Service Temperature, Air	130 °C	266 °F	UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	as molded; ASTM D648A
Oxygen Index	41 %	41 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.3	3.3	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.1 kV/mm	384 kV/in	Wet, step-by-step. ASTM D149

Electrical Properties	Metric	English	Comments
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	Wet; ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	ASTM D3638 (IEC 112)

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 180 °C	320 - 356 °F	Mold temperature

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