

Sumitomo Bakelite North America FS-4 Short-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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FS-4-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
Apparent Bulk Density	0.270 g/cc	0.00975 lb/in ³	
Water Absorption	0.35 %	0.35 %	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	69.0 MPa	10000 psi	ASTM D638
Flexural Yield Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Yield Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	1.87 J/cm	3.50 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 μm/m-°C	10.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.322 W/m-K	2.23 BTU-in/hr-ft ² -°F	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D648A
Oxygen Index	29 %	29 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	Wet
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, step-by-step. ASTM D149
	15.0 kV/mm	381 kV/in	Wet, short term. ASTM D149
Dissipation Factor	0.010	0.010	Wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.014	0.014	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	138 sec	138 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL746A, ASTM D3638

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

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