

Sumitomo Bakelite North America FS-10-VO-P 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. Meets the requirements of ASTM D5948 Type SIG-F. 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-10-VO-P-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	ASTM D792
Apparent Bulk Density	0.800 g/cc	0.0289 lb/in ³	
Water Absorption	0.25 %	0.25 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ASTM D638
Flexural Yield Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Compressive Yield Strength	180 MPa	26100 psi	ASTM D695
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C @Temperature 20.0 Â°C	10.0 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM D696
Maximum Service Temperature, Air	130 Â°C	266 Â°F	UL temperature Index, UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	as molded; ASTM D648
UL RTI, Electrical	130 Â°C	266 Â°F	UL temperature Index, UL 746B
UL RTI, Mechanical with Impact	130 Â°C	266 Â°F	UL temperature Index, UL 746B
UL RTI, Mechanical without Impact	130 Â°C	266 Â°F	UL temperature Index, UL 746B
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	50 %	50 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9	3.9	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	13.5 kV/mm	343 kV/in	Wet, step by step; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.020	0.020	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	ASTM D3638 (IEC 112)

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

Descriptive Properties	Value	Comments
Flammability, Burning, sec	50	ASTM D229
Flammability, Ignition, sec	130	ASTM D229

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