

Sumitomo Bakelite North America FS-10-VO-200-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:

Short glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound with excellent heat resistance. Meets the requirements of ASTM D5948 Type SIG-F. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FS-10-VO-200-P-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	Relative Density; ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.8 MPa	11000 psi	ASTM D638
Flexural Strength	131 MPa	19000 psi	At Rupture; ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	ASTM C-518
Maximum Service Temperature, Air	200 °C	392 °F	UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	As molded; ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@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; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.1	4.1	wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.8 kV/mm	376 kV/in	60Hz, Step-by-Step, wet; ASTM D149
Dissipation Factor	0.011	0.011	wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.016	0.016	wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	175 sec	175 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Descriptive Properties	Value	Comments
Color	Blue, Dark Gray	
Flammability: Burning, sec	50	ASTM D229
Flammability: Ignition, sec	130	ASTM D229
Form	Granular	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer, injection	

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