

Sumitomo Bakelite North America 73-70-70 C-P /73-70-70 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:

Ortho Resin Isomer (DAP). Used for critical, high-performance military and commercial electrical components where long-term reliability is demanded. Meets the requirements of ASTM D5948 Type SDG-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-73-70-70-C-P-73-70-70-VO-P-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 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 ^o C. ASTM D570
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, Ultimate	76.0 MPa	11000 psi	ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Yield Strength	150 MPa	21800 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	11.7 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	ASTM D696
Thermal Conductivity	0.293 W/m-K	2.03 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM F433
Maximum Service Temperature, Air	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL temperature Index, UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	≥ 260 $^{\circ}\text{C}$	≥ 500 $^{\circ}\text{F}$	ASTM D648A
UL RTI, Electrical	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL temperature Index, UL 746B
UL RTI, Mechanical with Impact	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	UL temperature Index, UL 746B

Thermal Properties	Metric	English	Comments
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	45 %	45 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.2	4.2	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.8 kV/mm	351 kV/in	Wet, step by step; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
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	130 sec	130 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL746A, ASTM D3638
Hot Wire Ignition, HWI	60 - 119 sec	60 - 119 sec	UL PLC 1 (60-119 sec)
	@Thickness 1.60 mm	@Thickness 0.0630 in	
High Amp Arc Ignition, HAI	<= 14 arcs	<= 14 arcs	UL PLC 4 (0-14 arcs)
	@Thickness 1.60 mm	@Thickness 0.0630 in	
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL PLC 0 (0-10 mm/min)
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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

Descriptive Properties	Value	Comments
Flammability, Burning, sec	15	ASTM D229

Descriptive Properties	Value	Comments
Flammability, Ignition, sec	15	ASTM D229

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