

Sumitomo Bakelite North America 52-01 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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-52-01-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.93 g/cc	0.0697 lb/in ³	ASTM D792
Apparent Bulk Density	0.750 g/cc	0.0271 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	69.0 MPa	10000 psi	ASTM D638
Flexural Yield Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Yield Strength	130 MPa	18900 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 $\mu\text{m}/\text{m}\cdot\text{C}^{\circ}$	11.7 $\mu\text{in}/\text{in}\cdot\text{F}^{\circ}$	ASTM D696
	@Temperature 20.0 C°	@Temperature 68.0 F°	
Thermal Conductivity	0.281 W/m-K	1.95 BTU-in/hr-ft ² - F°	ASTM F433
Maximum Service Temperature, Air	130 C°	266 F°	UL temperature Index, UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	205 C°	401 F°	as molded; ASTM D648
UL RTI, Electrical	130 C°	266 F°	UL temperature Index, UL 746B
UL RTI, Mechanical with Impact	130 C°	266 F°	UL temperature Index, UL 746B

UL RTI Mechanical without Impact Thermal Properties	130 Â°C Metric	266 Â°F English	UL temperature Index, UL 746B Comments
Oxygen Index	26 %	26 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.0	4.0	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dissipation Factor	13.8 kV/mm	351 kV/in	Wet, step-by-step. ASTM D149
Arc Resistance	0.010	0.010	Wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	0.016	0.016	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	150 sec	150 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	UL746A, ASTM D3638

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

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