

Sumitomo Bakelite North America 52-40-40-P Long-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 GDI-30F. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-52-40-40-P-Long-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ASTM D792
Apparent Bulk Density	0.300 g/cc	0.0108 lb/in ³	
Water Absorption	0.32 %	0.32 %	48 hours, 50 ^o 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
Flexural Yield Strength	125 MPa	18100 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Yield Strength	187 MPa	27100 psi	ASTM D695
Izod Impact, Notched	0.52 J/cm	0.97 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 $\mu\text{m/m}\cdot\text{C}^{\circ}$	12.2 $\mu\text{in/in}\cdot\text{F}^{\circ}$	ASTM D696
	@Temperature 20.0 C°	@Temperature 68.0 F°	
Thermal Conductivity	0.314 W/m-K	2.18 BTU-in/hr-ft ² - F°	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	260 C°	500 F°	as molded; ASTM D648
	$\geq 280 \text{ C}^{\circ}$	$\geq 536 \text{ F}^{\circ}$	post baked; ASTM D648
Oxygen Index	30 %	30 %	ASTM D2863

Electrical Properties	Metric	English	Comments
	4.3	4.3	

Dielectric Constant Electrical Properties	Metric @Frequency 1e+6 Hz	English @Frequency 1e+6 Hz	Wet Comments
	4.4	4.4	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.9 kV/mm	429 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	
	0.016	0.016	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	133 sec	133 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	60	ASTM D229
Flammability, Ignition, sec	90	ASTM D229

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