

Sumitomo Bakelite North America 775 CAF Mineral Filled Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , 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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-775-CAF-Mineral-Filled-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in ³	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 lb/in ³	
Water Absorption	0.65 %	0.65 %	48 hours, 50 ^o C. ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Yield Strength	145 MPa	21000 psi	ASTM D695
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	18.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	163 $\text{Å}^\circ\text{C}$	325 $\text{Å}^\circ\text{F}$	ASTM D648A
Oxygen Index	24 %	24 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5	4.5	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.7	4.7	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
	17.0 kV/mm	432 kV/in	Wet, short term. ASTM D149
Dissipation Factor	0.020 @Frequency 1000 Hz	0.020 @Frequency 1000 Hz	Wet; ASTM D150
	0.025 @Frequency 1e+6 Hz	0.025 @Frequency 1e+6 Hz	Wet; ASTM D150
Arc Resistance	138 sec	138 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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