

Sumitomo Bakelite North America FS-6 CAF Mineral Filled Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , Filled/Reinforced Thermoset

Material Notes:

Isophthalate DAP Resin Isomer. Used for critical, high-performance military and commercial electrical components where long-term reliability is demanded. Meets the requirements of ASTM D5948 Type MIG. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FS-6-CAF-Mineral-Filled-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.86 g/cc	0.0672 lb/in ³	ASTM D792
Apparent Bulk Density	0.810 g/cc	0.0293 lb/in ³	
Water Absorption	0.50 %	0.50 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 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	25.0 µm/m-°C @Temperature 20.0 °C	13.9 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	130 °C	266 °F	UL temperature Index, UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	274 °C	525 °F	ASTM D648A
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	130 °C	266 °F	UL temperature Index, UL 746B
Oxygen Index	23 %	23 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.1	4.1	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.3	4.3	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, step-by-step. ASTM D149
	15.0 kV/mm	381 kV/in	Wet, short term. ASTM D149
Dissipation Factor	0.020	0.020	Wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.025	0.025	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	UL 746A, ASTM D3638

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

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