

Sumitomo Bakelite North America FS-5 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:

Short glass fiber reinforced, non-flame retardant, diallyl meta-phthalate molding compound which meets the requirements of ASTM D5948 TYPE SIG. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-FS-5-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	Relative Density; ASTM D792
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 at Break	69.0 MPa	10000 psi	ASTM D638
Flexural Strength	110 MPa	16000 psi	At Rupture; ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	131 MPa	19000 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	10.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	ASTM C-518
Maximum Service Temperature, Air	130 °C	266 °F	UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 260 \text{°C}$	$\geq 500 \text{°F}$	As molded; ASTM D648
Oxygen Index	29 %	29 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.9	3.9	

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.8 kV/mm @Frequency 1000 Hz	376 kV/in @Frequency 1000 Hz	wet; ASTM D150 60Hz, Step-by-Step, wet; ASTM D149
Dissipation Factor	0.011 @Frequency 1000 Hz	0.011 @Frequency 1000 Hz	wet; ASTM D150
	0.014 @Frequency 1e+6 Hz	0.014 @Frequency 1e+6 Hz	wet; ASTM D150
Arc Resistance	175 sec	175 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black, Blue, Brown, Green, Red, White	
Form	Granular	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer, injection	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China