

## Sumitomo Bakelite North America 52-70-70-VO-P 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. Conforms with the requirements of ASTM D5948 Type SDG-F. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-52-70-70-VO-P-Short-Glass-Reinforced-Diallyl-Phthalate.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-52-70-70-VO-P-Short-Glass-Reinforced-Diallyl-Phthalate.php)

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.750 g/cc	0.0271 lb/in <sup>3</sup>	
Water Absorption	0.25 %	0.25 %	48 hours, 50 <sup>o</sup> 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	75.0 MPa	10900 psi	ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Yield Strength	150 MPa	21800 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 $\text{C}^{\circ}$	@Temperature 68.0 $\text{F}^{\circ}$	
Maximum Service Temperature, Air	130 $\text{C}^{\circ}$	266 $\text{F}^{\circ}$	UL temperature Index, UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	$\geq$ 280 $\text{C}^{\circ}$	$\geq$ 536 $\text{F}^{\circ}$	ASTM D648A
UL RTI, Electrical	130 $\text{C}^{\circ}$	266 $\text{F}^{\circ}$	UL temperature Index, UL 746B
UL RTI, Mechanical with Impact	130 $\text{C}^{\circ}$	266 $\text{F}^{\circ}$	UL temperature Index, UL 746B
UL RTI, Mechanical without Impact	130 $\text{C}^{\circ}$	266 $\text{F}^{\circ}$	UL temperature Index, UL 746B
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	13.8 kV/mm	351 kV/in	Wet, step-by-step. ASTM D149
Dissipation Factor	0.014	0.014	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	130 sec	130 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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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