

## Sumitomo Bakelite North America RX<sup>®</sup> 3-2-530-P Long-Glass Reinforced Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Long Glass Fiber Filled , Filled/Reinforced Thermoset

### Material Notes:

Long glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound which meets the requirements of ASTM D5948 Type GII-30F. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-RX-3-2-530-P-Long-Glass-Reinforced-Diallyl-Phthalate.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-3-2-530-P-Long-Glass-Reinforced-Diallyl-Phthalate.php)

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in <sup>3</sup>	Relative Density; ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 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	131 MPa	19000 psi	At Rupture; ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM E-831
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 260 \text{ Å}^\circ\text{C}$	$\geq 500 \text{ Å}^\circ\text{F}$	As molded; ASTM D648
Oxygen Index	40 %	40 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9	3.9	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.1	4.1	wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	Metric	English	Comments
<b>Dielectric Strength</b>	<b>15.3 kV/mm</b>	<b>40 kV/in</b>	<b>50Hz, Step-by-Step, wet; ASTM D149</b>
Dissipation Factor	0.010	0.010	wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.019	0.019	wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	135 sec	135 sec	ASTM D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Descriptive Properties	Value	Comments
Color	Brown, Gray	
Flammability: Burning, sec	40	ASTM D229
Flammability: Ignition, sec	110	ASTM D229
Form	Coarse Flake	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

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