

Sumitomo Bakelite North America RX[®] 1-520/RX[®] 1310 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 ortho-phthalate molding compound which meets the requirements of ASTM D5948
Type SDG. 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-1-520RX-1310-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	Powder Density; ASTM D1895
Density	1.83 g/cc	0.0661 lb/in ³	Relative Density; ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	ASTM D638
Flexural Strength	124 MPa	18000 psi	At Rupture; ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Compressive Strength	150 MPa	21800 psi	ASTM D695
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	11.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM E-831
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ASTM C-518
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)	205 $\text{Å}^\circ\text{C}$	401 $\text{Å}^\circ\text{F}$	As molded; ASTM D648
Oxygen Index	26 %	26 %	ASTM D2863

Electrical Properties	Metric	English	Comments
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Electrical Properties	^{3.5} Metric	^{3.5} English	Comments ^{D150}
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.0	4.0	wet; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	12.2 kV/mm	310 kV/in	60Hz, Step-by-Step, wet; ASTM D149
	0.0090	0.0090	wet; ASTM D150
Dissipation Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.016	0.016	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	IEC 112

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

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