

Sumitomo Bakelite North America RX[®] 2-520 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:

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 SIG. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-2-520-Short-Glass-Reinforced-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	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	70.0 MPa	10200 psi	ASTM D638
Flexural Yield Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	17.8 GPa	2580 ksi	ASTM D790
Compressive Yield Strength	165 MPa	23900 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	10.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Maximum Service Temperature, Air	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL temperature Index, 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 D648A
UL RTI, Electrical	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL temperature Index, UL 746B
UL RTI, Mechanical with Impact	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL temperature Index, UL 746B
UL RTI, Mechanical without Impact	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	UL temperature Index, UL 746B
Oxygen Index	25 %	25 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	Wet
Dielectric Strength	13.5 kV/mm @Frequency 60.0 Hz	343 kV/in @Frequency 60.0 Hz	Wet, step by step; ASTM D149
Dissipation Factor	0.017 @Frequency 1e+6 Hz	0.017 @Frequency 1e+6 Hz	Wet; ASTM D150
Arc Resistance	150 sec	150 sec	ASTM D495
Hot Wire Ignition, HWI	7.0 - 14 sec @Thickness 1.47 mm	7.0 - 14 sec @Thickness 0.0579 in	UL PLC 4 (7-14 sec)
High Amp Arc Ignition, HAI	15 - 29 arcs @Thickness 1.47 mm	15 - 29 arcs @Thickness 0.0579 in	UL PLC 3 (15-29 arcs)
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min @Thickness 1.47 mm	0.000 - 0.394 in/min @Thickness 0.0579 in	UL PLC 0 (0-10 mm/min)

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

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