

Sumitomo Bakelite North America RX® 1-510N Mineral Filled Diallyl Phthalate

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP), Cast, Mineral Filler , 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. 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-1-510N-Mineral-Filled-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	ASTM D792
Apparent Bulk Density	0.690 g/cc	0.0249 lb/in ³	
Water Absorption	0.50 %	0.50 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Flexural Yield Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Yield Strength	138 MPa	20000 psi	ASTM D695
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C	16.1 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	4.2	4.2	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	Wet, step-by-step. ASTM D149

Electrical Properties	16.0 kV/mm Metric	406 kV/in English	Wet, short term, ASTM D149 Comments
Dissipation Factor	0.015 @Frequency 1000 Hz	0.015 @Frequency 1000 Hz	Wet; ASTM D150
	0.017 @Frequency 1e+6 Hz	0.017 @Frequency 1e+6 Hz	Wet; ASTM D150
Arc Resistance	135 sec	135 sec	ASTM D495

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

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