

Sumitomo Bakelite North America RX® 1-501AN 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-1-501AN-Mineral-Filled-Diallyl-Phthalate.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ASTM D792
Apparent Bulk Density	0.670 g/cc	0.0242 lb/in ³	
Water Absorption	0.40 %	0.40 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Flexural Yield Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Yield Strength	152 MPa	22000 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	34.0 µm/m-°C	18.9 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM D648A
Oxygen Index	24 %	24 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7	3.7	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.3	4.3	Wet

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	Wet, step-by-step. ASTM D149
	16.0 kV/mm	406 kV/in	Wet, short term. ASTM D149
Dissipation Factor	0.015	0.015	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

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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