

RX® 1-501N

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

RX 1-501N is a mineral filled diallyl phthalate compound which conforms with the requirements of ASTM D5948 Type MDG.

General Information			
UL YellowCard	E123472-221394		
Filler / Reinforcement	Mineral		
Agency Ratings	ASTM D 5948, Type MDG		
Appearance	Black		
	Blue		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Apparent Density	0.75	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	55.0	MPa	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	145	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	165	°C	ASTM D648
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM E831
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant ¹			ASTM D150

1 kHz	4.20		
1 MHz	3.60		
Dissipation Factor ²			ASTM D150
1 kHz	0.013		
1 MHz	0.014		
Arc Resistance	140	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
NOTE			
1.	Wet		
2.	Wet		

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