

RX® 3-1-501N-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

RX 3-1-501N-P is a mineral filled diallyl phthalate compound which conforms with the requirements of ASTM D5948 Type MDG-F.

General Information	
UL YellowCard	E123472-221399
Filler / Reinforcement	Mineral
Agency Ratings	ASTM D 5948, Type MDG-F
Appearance	Black
	Blue
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	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	103	MPa	ASTM D790
Compressive Strength	151	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	162	°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 ¹			ASTM D149
-- ²	16	kV/mm	

-- ³	15	kV/mm	
Dielectric Constant ⁴			ASTM D150
1 kHz	4.30		
1 MHz	3.70		
Dissipation Factor ⁵			ASTM D150
1 kHz	0.013		
1 MHz	0.016		
Arc Resistance	135	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
NOTE			
1.	60 Hz, Wet		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		
4.	Wet		
5.	Wet		

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