

RX® 1-520

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

RX® 1-520 is a short glass fiber reinforced, non-flame retardant, diallyl ortho-phthalate molding compound, which meets the requirements of ASTM D5948 Type SDG.

General Information	
Filler / Reinforcement	Glass Fiber
Agency Ratings	ASTM D 5948, Type SDG
Appearance	Black
	Brown
	Green
Forms	Granules
Processing Method	Compression 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 (Compression Molded)	0.10 to 0.30	%	ASTM D955
Water Absorption - 48 hr (50°C)	0.25	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	76.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	12400	MPa	ASTM D790
Flexural Strength (Compression Molded)	124	MPa	ASTM D790
Compressive Strength	150	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	37	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	205	°C	ASTM D648
CLTE - Flow	2.1E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.28	W/m/K	ASTM C518
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI Str	130	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
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Dielectric Strength	12	kV/mm	ASTM D149
Dielectric Constant ¹			ASTM D2520
1 kHz	4.00		
1 MHz	3.50		
Dissipation Factor ²			ASTM D150
1 kHz	9.0E-3		
1 MHz	0.016		
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ASTM D2863
NOTE			
1.	Wet		
2.	Wet		

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