

RX® 3-2-520F-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

RX® 3-2-520F-P is a short glass fiber reinforced, flame retardant, diallyl meta-phthalate molding compound, which meets the requirements of ASTM D5948 Type SIG-F.

General Information	
UL YellowCard	E123472-221402
Filler / Reinforcement	Glass Fiber
Additive	Flame Retardant
Features	Flame Retardant
Agency Ratings	ASTM D 5948, Type SIG-F
Appearance	Black
	Green
Forms	Granules
Processing Method	Compression Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.90	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
Flammability			ASTM D229
Burning	40.0	sec	
Ignition	120.0	sec	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	83.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	12400	MPa	ASTM D790
Flexural Strength (Compression Molded)	131	MPa	ASTM D790
Compressive Strength	150	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	43	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	274	°C	ASTM D648
CLTE - Flow	1.8E-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	16	kV/mm	ASTM D149
Dielectric Constant ¹			ASTM D2520
1 kHz	4.10		
1 MHz	3.90		
Dissipation Factor ²			ASTM D150
1 kHz	0.010		
1 MHz	0.013		
Arc Resistance	150	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112, ASTM D3638
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
Oxygen Index	39	%	ASTM D2863
NOTE			
1.	Wet		
2.	Wet		

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