

RX® 3-1-525F-P

Diallyl Phthalate

Sumitomo Bakelite North America, Inc.

Message:

RX 3-1-525F-P is a short glass fiber reinforced, flame retardant, diallyl ortho-phthalate molding compound, which meets the requirements of ASTM D5948 Type SDG-F.

General Information	
UL YellowCard	E123472-221393
Filler / Reinforcement	Glass Fiber
Additive	Flame Retardant
Features	Flame Retardant
Agency Ratings	ASTM D 5948, Type SDG-F
Appearance	Black
	Blue
	Dark Green
	Green
	Grey
	White
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.87	g/cm ³	ASTM D792
Molding Shrinkage - Flow	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	110.0	sec	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	83.0	MPa	ASTM D638
Flexural Modulus	12400	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Compressive Strength	152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	1.9E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.32	W/m/K	ASTM C518
RTI Elec	170 to 180	°C	UL 746
RTI Imp	170 to 180	°C	UL 746
RTI Str	170 to 180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	18	kV/mm	ASTM D149
Dielectric Constant ¹			ASTM D150
1 kHz	4.20		
1 MHz	3.50		
Dissipation Factor ²			ASTM D150
1 kHz	0.010		
1 MHz	0.016		
Arc Resistance	130	sec	ASTM D495
Comparative Tracking Index	> 600	V	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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