



RX[®] 3-1-525F-P

Description 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.

Available colors Black, Blue, Gray, Green, Dark Green, White

Available molding grades Compression, Transfer, Injection

Form Granular

Properties		International Units		English Units		Method	
Physical	Specific Gravity	1.87		1.87		ASTM D792	
	Apparent (Powder) Density	-	g/cm ³	-	lb/gal	ASTM D1895	
	Molding Shrinkage	0.1 – 0.3		0.001-0.003		ASTM D955	
	Post Shrinkage	-	%	-	in/in	ASTM D955	
	Water Absorption	24 hour	-	%	-	ASTM D570	
	48 hour	0.25	%	0.25	ASTM D570		
Thermal	Temperature of deflection under load	As Molded	204	°C at 1.8 MPa	399	°F at 264 psi	ASTM D648A
		Post Baked	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Thermal Conductivity		0.32	W/mK	0.32	W/mK	ASTM C518
	Oxygen Index		39	%	39	%	ASTM D2863
	UL Temperature Index		170 - 180	°C	338 - 356	°F	UL 746B
	UL-Flammability	3.2 mm	94V-0		94V-0		UL 94
		1,6 mm	94V-0		94V-0		UL 94
Coefficient of linear thermal expansion	parallel	19	10 E-6/°C	11	10 E-6/°F	ASTM E831	
	perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831	
Mechanical	Flexural Strength	131	MPa	19,000	psi	ASTM D790	
	Flexural Modulus	12.4	GPa	1.8	Mpsi	ASTM D790	
	Tensile strength	83	MPa	12,000	psi	ASTM D638	
	Izod Impact Strength, notched	43	J/m	0.80	ft lb/in	ASTM D256A	
	Compressive Strength	152	MPa	22,000	Psi	ASTM D695	
	Rockwell Hardness	M Scale	-		-		
E Scale		-		-		ASTM D785	
Electrical	Dielectric Constant, 1 MHz, wet	3.5		3.5		ASTM D150	
	Dissipation Factor, 1 MHz, wet	0.016		0.016		ASTM D150	
	Arc Resistance	130	Seconds	130	Seconds	ASTM D495	
	Dielectric Strength, 60 Hz	ST, dry/wet	-/-	kV/mm	-/-	V/mil	ASTM D149
		SS, dry/wet	-/17.7	kV/mm	-/450	V/mil	ASTM D149
Tracking Resistance	>600	V	>600	V	ASTM D3638 (IEC 112)		

Properties measured on compression molded ASTM specimens. Values are typical, not statistical minimums.

Contact your Sumitomo Bakelite representative for specifications and post baking recommendations.

ST = short time. SS = step-by-step. Wet = immersed in H₂O for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

RoHS: RX[®] 3-1-525F-P is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: RX[®] 3-1-525F-P does not contain perfluorooctanesulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : RX[®] 3-1-525F-P does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA.

Revision Date: 7/2/2014. Shelf life 12 months when stored at 70 °F maximum.

The information presented in this document is provided in good faith, but no warranty is given or is to be implied regarding its accuracy or relevance to any particular application. Users must satisfy themselves regarding the suitability and safety of their use of the information and products in the application concerned.

Sumitomo Bakelite North America, Inc.
24 Mill Street, Manchester, CT 06042-2316, USA
Tel. 1-800-243-7158, Fax 1-860-646-5503

Sumitomo Bakelite North America, Inc.
Corporate Office
46820 Magellan Drive, Suite C, Novi, MI 48377
Tel. 1-248-313-7000, Fax 1-248-313-7027

www.sbhpp.com