



## RX® 1366FR-P

<b>Description</b>	RX® 1366FR-P is a short glass fiber reinforced, flame retardant, diallyl ortho-phthalate molding compounds, which meet the requirements of ASTM D5948 Type SDG-F.
<b>Available colors</b>	Black, Blue, Gray, Green, Dark Green, White
<b>Available molding grades</b>	Compression, Transfer, Injection
<b>Form</b>	Granular



Properties		International Units		English Units		Method	
Physical	Specific Gravity	<b>1.87</b>		<b>1.87</b>		ASTM D792	
	Apparent (Powder) Density	-	g/cm <sup>3</sup>	-	lb/gal	ASTM D1895	
	Molding Shrinkage	<b>0.1 – 0.3</b>		<b>0.001-0.003</b>		ASTM D955	
	Post Shrinkage	-	%	-	in/in	ASTM D955	
	Water Absorption	24 hour	-	%	-	ASTM D570	
	48 hour	<b>0.25</b>	%	<b>0.25</b>	ASTM D570		
Thermal	Temperature of deflection under load	As Molded	<b>204</b>	°C at 1.8 MPa	<b>399</b>	°F at 264 psi	ASTM D648A
		Post Baked	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Thermal Conductivity		<b>0.32</b>	W/mK	<b>0.32</b>	W/mK	ASTM C518
	Oxygen Index		<b>39</b>	%	<b>39</b>	%	ASTM D2863
	UL Temperature Index		<b>170 - 180</b>	°C	<b>338 - 356</b>	°F	UL 746B
	UL-Flammability	3.2 mm	<b>94V-0</b>		<b>94V-0</b>		UL 94
		1,6 mm	<b>94V-0</b>		<b>94V-0</b>		UL 94
Mechanical	Coefficient of linear thermal expansion	parallel	<b>19</b>	10 E-6/°C	<b>11</b>	10 E-6/°F	ASTM E831
		perpendicular	-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural Strength		<b>131</b>	MPa	<b>19,000</b>	psi	ASTM D790
	Flexural Modulus		<b>12.4</b>	GPa	<b>1.8</b>	Mpsi	ASTM D790
	Tensile strength		<b>83</b>	MPa	<b>12,000</b>	psi	ASTM D638
	Izod Impact Strength, notched		<b>43</b>	J/m	<b>0.80</b>	ft lb/in	ASTM D256A
	Compressive Strength		<b>152</b>	MPa	<b>22,000</b>	Psi	ASTM D695
	Rockwell Hardness	M Scale	-		-		ASTM D785
		E Scale	-		-		ASTM D785
	Electrical	Dielectric Constant, 1 MHz, wet		<b>3.5</b>		<b>3.5</b>	
Dissipation Factor, 1 MHz, wet			<b>0.016</b>		<b>0.016</b>		ASTM D150
Arc Resistance			<b>130</b>	Seconds	<b>130</b>	Seconds	ASTM D495
Dielectric Strength, 60 Hz		ST, dry/wet	<b>-/-</b>	kV/mm	<b>-/-</b>	V/mil	ASTM D149
		SS, dry/wet	<b>-/17.7</b>	kV/mm	<b>-/450</b>	V/mil	ASTM D149
Tracking Resistance		<b>&gt;600</b>	V	<b>&gt;600</b>	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 H<sub>2</sub>O 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® 1366FR-P is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: RX® 1366FR-P does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : RX® 1366FR-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.

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