



## RX<sup>®</sup> 1310

<b>Description</b>	RX <sup>®</sup> 1310 is a short glass fiber reinforced, non-flame retardant, diallyl ortho-phthalate molding compound, which meets the requirements of ASTM D5948 Type SDG.
<b>Available colors</b>	Black, Brown, Green
<b>Available molding grades</b>	Compression, Transfer
<b>Form</b>	Granular

Properties		International Units		English Units		Method
Physical	Specific Gravity	<b>1.84</b>		<b>1.84</b>		ASTM D792
	Apparent (Powder) Density	<b>0.76</b>	g/cm <sup>3</sup>	<b>6.3</b>	lb/gal	ASTM D1895
	Molding Shrinkage	<b>0.1 – 0.3</b>	%	<b>0.001-0.003</b>	in/in	ASTM D955
	Post Shrinkage	-	%	-	in/in	ASTM D955
	Water Absorption		%		%	ASTM D570
	24 hour	-		-		ASTM D570
	48 hour	<b>0.25</b>	%	<b>0.25</b>	%	ASTM D570
Thermal	Temperature of deflection under load	<b>205</b>	°C at 1.8 MPa	<b>401</b>	°F at 264 psi	ASTM D648A
		-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Thermal Conductivity	<b>0.28</b>	W/mK	<b>0.28</b>	W/mK	ASTM C518
	Oxygen Index	<b>26</b>	%	<b>26</b>	%	ASTM D2863
	UL Temperature Index	<b>130</b>	°C	<b>266</b>	°F	UL 746B
	UL-Flammability					UL 94
		3.2 mm	-	-	-	UL 94
	1,6 mm	-	-	-	UL 94	
Mechanical	Coefficient of linear thermal expansion	<b>21</b>	10 E-6/°C	<b>12</b>	10 E-6/°F	ASTM E831
		-	10 E-6/°C	-	10 E-6/°F	ASTM E831
	Flexural Strength	<b>124</b>	MPa	<b>18,000</b>	psi	ASTM D790
	Flexural Modulus	<b>12.4</b>	GPa	<b>1.8</b>	Mpsi	ASTM D790
	Tensile strength	<b>76</b>	MPa	<b>10,000</b>	psi	ASTM D638
	Izod Impact Strength, notched	<b>37</b>	J/m	<b>0.69</b>	ft lb/in	ASTM D256A
	Compressive Strength	<b>150</b>	MPa	<b>21,800</b>	Psi	ASTM D695
	Rockwell Hardness					
		M Scale	-	-	-	
		E Scale	-	-	-	ASTM D785
Electrical	Dielectric Constant, 1 MHz, wet	<b>3.5</b>		<b>3.5</b>		ASTM D150
	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, ST, dry/wet	<b>-/-</b>	kV/mm	<b>-/-</b>	V/mil	ASTM D149
	60 Hz	<b>-/12.2</b>	kV/mm	<b>-/310</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<sup>®</sup> 1310 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: RX<sup>®</sup> 1310 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : RX<sup>®</sup> 1310 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.

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