



## RX<sup>®</sup> 2-501N

**Description** RX<sup>®</sup> 2-501N is a mineral filled ISO diallyl phthalate compound which conforms with the requirements of ASTM D5948 Type MIG.

**Available colors** Black, Blue, Red, Gray, Brown

**Available molding grades** Compression, Transfer, Injection

**Form** Granular

Properties		International Units		English Units		Method	
Physical	Specific Gravity	<b>1.80</b>		<b>1.80</b>		ASTM D792	
	Apparent (Powder) Density	<b>0.75</b>	g/cm <sup>3</sup>	<b>6.3</b>	lb/gal	ASTM D1895	
	Molding Shrinkage	<b>0.3 – 0.6</b>		<b>0.003–0.006</b>		ASTM D955	
	Post Shrinkage	-	%	-	in/in	ASTM D955	
	Water Absorption		%		%	ASTM D570	
	24 hour	-	%	-	%	ASTM D570	
	48 hour	<b>0.30</b>	%	<b>0.30</b>	%	ASTM D570	
Thermal	Temperature of deflection under load	As Molded	<b>274</b>	°C at 1.8 MPa	<b>525</b>	°F at 264 psi	ASTM D648A
		Post Baked	-	°C at 1.8 MPa	-	°F at 264 psi	ASTM D648A
	Thermal Conductivity		<b>23</b>	W/mK	<b>23</b>	W/mK	ASTM C518
	Oxygen Index		-	%	-	%	ASTM D2863
	UL Temperature Index		<b>130</b>	°C	<b>266</b>	°F	UL 746B
	UL-Flammability	3.2 mm	<b>94HB</b>		<b>94HB</b>		UL 94
		1,6 mm	<b>94HB</b>		<b>94HB</b>		UL 94
Mechanical	Coefficient of linear thermal expansion	parallel	<b>25</b>	10 E-6/°C	<b>14</b>	10 E-6/°F	ASTM E831
		perpendicular		10 E-6/°C		10 E-6/°F	ASTM E831
	Flexural Strength		<b>103</b>	MPa	<b>14,900</b>	psi	ASTM D790
	Flexural Modulus		<b>11.7</b>	GPa	<b>1.7</b>	Mpsi	ASTM D790
	Tensile strength		<b>55</b>	MPa	<b>8,000</b>	psi	ASTM D638
	Izod Impact Strength, notched		<b>24</b>	J/m	<b>0.44</b>	ft lb/in	ASTM D256A
	Compressive Strength		<b>145</b>	MPa	<b>21,000</b>	Psi	ASTM D695
Electrical	Rockwell Hardness	M Scale	-		-		ASTM D785
		E Scale	-		-		ASTM D785
	Dielectric Constant, 1 MHz, wet		<b>3.8</b>		<b>3.8</b>		ASTM D150
	Dissipation Factor, 1 MHz, wet		<b>0.019</b>		<b>0.019</b>		ASTM D150
	Arc Resistance		<b>150</b>	Seconds	<b>150</b>	Seconds	ASTM D495
	Dielectric Strength, 60 Hz	ST, dry/wet	-/-	kV/mm	-/-	V/mil	ASTM D149
	SS, dry/wet	-/-	kV/mm	-/-	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> 2-501N is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: RX<sup>®</sup> 2-501N does not contain perfluorooctanesulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : RX<sup>®</sup> 2-501N 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 6 months when stored at 40 °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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