

## Sumitomo Bakelite North America RX<sup>®</sup> 660 Fiberglass Reinforced Phenolic Novolac

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

### Material Notes:

RX<sup>®</sup> 660 is a fiberglass reinforced phenolic molding compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type MFH. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-RX-660-Fiberglass-Reinforced-Phenolic-Novolac.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-660-Fiberglass-Reinforced-Phenolic-Novolac.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	Powder; ISO 60
Density	1.81 g/cc	0.0654 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ISO 2039/2
Tensile Strength, Ultimate	70.0 MPa	10200 psi	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Compressive Strength	270 MPa	39200 psi	ISO 604
Charpy Impact Unnotched	0.570 J/cm <sup>2</sup>	2.71 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	0.270 J/cm <sup>2</sup>	1.28 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	12.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	TMA
	@Temperature 23.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	26.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	14.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	TMA
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.690 W/m-K	4.79 BTU-in/hr-ft <sup>2</sup> - $\text{Å}^\circ\text{F}$	ASTM F433
Maximum Service Temperature, Air	180 $\text{Å}^\circ\text{C}$	356 $\text{Å}^\circ\text{F}$	UL Temperature Index; UL 746B

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 Å°C	392 Å°F	As Moulded; ISO 75 A
	>= 282 Å°C	>= 540 Å°F	Post Baked; ISO 75 A
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm	5.00e+13 ohm-cm	IEC 93
Surface Resistance	1.56e+13 ohm	1.56e+13 ohm	IEC 93
Dielectric Strength	24.9 kV/mm	632 kV/in	IEC 243
	@Thickness 3.00 mm	@Thickness 0.118 in	
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	IEC 112

Descriptive Properties	Value	Comments
Available Molding Grades	Compression, Transfer, Injection	
Color	Black, Green	
Form	Granular	

## Contact Songhan Plastic Technology Co.,Ltd.

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