

## Sumitomo Bakelite North America RXA® 630 Fiberglass Reinforced Phenolic

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

### Material Notes:

RXA® 630 is a fiberglass reinforced phenolic molding compound, with good dimensional stability and good strength at elevated temperatures. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-North-America-RX-630-Fiberglass-Reinforced-Phenolic.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-630-Fiberglass-Reinforced-Phenolic.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in <sup>3</sup>	Powder; ISO 60
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100	100	ISO 2039/2
Tensile Strength, Ultimate	90.0 MPa	13100 psi	ISO 527
Flexural Strength	185 MPa	26800 psi	ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
Compressive Strength	360 MPa	52200 psi	ISO 604
Charpy Impact, Notched	0.450 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åm/m-Å°C	7.78 Åin/in-Å°F	TMA
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ftÅ <sup>2</sup> -Å°F	ASTM F433
Maximum Service Temperature, Air	150 Å°C	302 Å°F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	200 Å°C	392 Å°F	As Molded; ISO 75 A
	>= 282 Å°C	>= 540 Å°F	Post Baked; ISO 75 A
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	12.0 kV/mm	305 kV/in	IEC 243
	@Thickness 3.00 mm	@Thickness 0.118 in	
Arc Resistance	135 sec	135 sec	ASTM D495

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China