

Sumitomo Bakelite North America RX[®] 640 Fiberglass Reinforced Phenolic Resole

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

RX[®] 640 is a fiberglass reinforced, ammonia-free, phenolic resole compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type GPI-5. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-640-Fiberglass-Reinforced-Phenolic-Resole.php

Physical Properties	Metric	English	Comments
Bulk Density	0.80 g/cc	0.029 lb/in ³	Powder; ASTM D1895
Density	1.76 g/cc	0.0636 lb/in ³	ASTM D792
Water Absorption	0.06 %	0.06 %	ASTM D570
	@Time 86000 sec	@Time 24 hour	
	0.22 %	0.22 %	ASTM D570
	@Time 170000 sec	@Time 48 hour	
Linear Mold Shrinkage	0.002 cm/cm	0.002 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ASTM D785
Tensile Strength, Ultimate	86 MPa	12000 psi	ISO 527
Flexural Strength	186 MPa	27000 psi	ISO 178
Flexural Modulus	14.5 GPa	2100 ksi	ISO 178
Compressive Strength	248 MPa	36000 psi	ISO 604
Charpy Impact, Notched	0.40 J/cm ²	1.9 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	TMA; ASTM E381
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Thermal Conductivity	0.550 W/m-K	3.82 BTU-in/hr-ft ² -Å°F	ASTM F433
Maximum Service Temperature, Air	150 Å°C	302 Å°F	UL Temperature Index; UL 746B

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>280 Â°C</small>	English <small>536 Â°F</small>	Comments <small>As Molded; ASTM D648A</small>
	>= 282 Â°C	>= 540 Â°F	Post Baked; ISO 75 A
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	11.8 kV/mm @Frequency 60.0 Hz	300 kV/in @Frequency 60.0 Hz	Wet, step-by-step; ASTM D149
	14.0 kV/mm @Frequency 60 Hz	356 kV/in @Frequency 60 Hz	Wet, short time; ASTM D149
Arc Resistance	160 sec	160 sec	ASTM D495

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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