

Sumitomo Bakelite North America RX[®] 525 Cellulose Reinforced Phenolic Novolac

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

Material Notes:

RX[®] 525 is a cellulose fiber reinforced phenolic novolac molding compound. This material is recommended for parts requiring moderate toughness. It is designed to meet the requirements of ASTM D-5948-96, Type CFG. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-525-Cellulose-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	ASTM D1895
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	1.7 %	1.7 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	75	75	ASTM D785
Tensile Strength at Break	41.0 MPa	5950 psi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	at rupture; ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Compressive Strength	169 MPa	24500 psi	ASTM D695
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 Åµm/m-Å°C	23.9 Åµin/in-Å°F	ASTM E831
CTE, linear, Transverse to Flow	52.0 Åµm/m-Å°C	28.9 Åµin/in-Å°F	ASTM E831
Thermal Conductivity	0.540 W/m-K	3.75 BTU-in/hr-ftÅ²-Å°F	ASTM C518
Maximum Service Temperature, Air	150 Å°C	302 Å°F	UL Temperature Index; UL 746B

Thermal Properties Tensile Strength at 1.8 MPa (264 psi)	Metric 165 A °C	English 328 A °F	Comments As Molded; ASTM D648A
Flammability, UL94	HB	HB	
	@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
Dielectric Strength	1.00 kV/mm	25.4 kV/in	step-by-step, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	2.00 kV/mm	50.8 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	70 sec	70 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellet	
Molding Method	Compression	
	Injection	
	Transfer	

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