

Vyncolit X655RB Glass Fiber and Mineral Filled Novolac Phenolic

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

Material Notes:

Novolac resin based, glass fiber and mineral reinforced. Grade with superior stiffness, high dimensional stability and high wear resistance. Good chemical resistance against several fuels at elevated temperatures. Used for housings and impellers. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X655RB-Glass-Fiber-and-Mineral-Filled-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	1.04 g/cc	0.0376 lb/in ³	ISO 60
Density	2.08 g/cc	0.0751 lb/in ³	ISO 1183
Water Absorption	0.030 %	0.030 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527-1
Elongation at Break	0.45 %	0.45 %	ISO 527-1
Tensile Modulus	30.0 GPa	4350 ksi	ISO 527-1
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	25.0 GPa	3630 ksi	ISO 178
Compressive Strength	360 MPa	52200 psi	ISO 604
Charpy Impact Unnotched	0.870 J/cm ²	4.14 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.270 J/cm ²	1.28 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 μm/m-°C	6.67 μin/in-°F	TMA
CTE, linear, Transverse to Flow	22.0 μm/m-°C	12.2 μin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 223 °C	>= 433 °F	ISO 75 Af
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	V-g Metric	V-g English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.020 %	0.020 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.74e+15 ohm-cm	1.74e+15 ohm-cm	IEC 60093
Surface Resistance	1.95e+13 ohm	1.95e+13 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Comparative Tracking Index	325 V	325 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Dark Green	
Molding Method	Compression	
	Injection	
	Transfer	

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