

Vyncolit X655/1 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 filled. High dimensional stability and excellent chemical resistance at high temperatures in hydraulic brake fluids. Used in particular in the ABS system. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X6551-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	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.0016 cm/cm	0.0016 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527-1
Elongation at Break	0.40 %	0.40 %	ISO 527-1
Tensile Modulus	28.0 GPa	4060 ksi	ISO 527-1
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	24.0 GPa	3480 ksi	ISO 178
Compressive Strength	360 MPa	52200 psi	ISO 604
Charpy Impact Unnotched	0.800 J/cm ²	3.81 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	14.0 μm/m-°C	7.78 μin/in-°F	TMA
CTE, linear, Transverse to Flow	25.0 μm/m-°C	13.9 μin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 211 °C	>= 412 °F	ISO 75 Af
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.050 %	0.050 %	Post Shrinkage; ISO 2577

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

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