

Vyncolit X620/1 Novolac Phenolic

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

Material Notes:

Glass fiber and graphite filled phenolic molding compound with excellent friction properties. USES: Low friction bearings, video recorder and compact disc parts. Not suitable for applications requiring electrical insulation. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X6201-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	Powder Density; ISO 60
Density	1.67 g/cc	0.0603 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0022 cm/cm	0.0022 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	0.70 %	0.70 %	Tensile; ISO 527
	1.0 %	1.0 %	Flexure; ISO 178
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527
Flexural Strength	130 MPa	18900 psi	At Rupture; ISO 178
Flexural Modulus	15.0 GPa	2180 ksi	ISO 178
Compressive Strength	170 MPa	24700 psi	ISO 604
Charpy Impact Unnotched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 μm/m-°C	11.1 μin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	35.0 μm/m-°C	19.4 μin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75 Af
	V-0	V-0	

Flammability UL 94 Thermal Properties	Metric @Thickness 1.60 mm	English @Thickness 0.0630 in	Comments
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.010 %	0.010 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C1	
Main Filler	Glass Fiber & Graphite	
Molding Method	Compression, transfer, injection	

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