

Vyncolit X6151 Novolac Phenolic

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

Material Notes:

Glass fiber and mineral filled phenolic molding compound with excellent mechanical and thermal properties. Highest impact, high strain to failure, glycol resistant. USES: Water pumps and water pump impellers without metal insert bushes. Intake manifolds. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X6151-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	Powder Density; ISO 60
Density	1.55 g/cc	0.0560 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	Tensile; ISO 527
	1.65 %	1.65 %	Flexure; ISO 178
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527
Flexural Strength	160 MPa	23200 psi	At Rupture; ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Compressive Strength	220 MPa	31900 psi	ISO 604
Charpy Impact Unnotched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	45.0 $\mu\text{m}/\text{m}\cdot\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot\text{F}$	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-1	V-1	

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	0.10 %	0.10 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243
Comparative Tracking Index	175 V	175 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C3	
Main Filler	Glass Fiber & Mineral	
Molding Method	Compression, transfer, injection	

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