

Vyncolit X613 Novolac Phenolic

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

Material Notes:

Glass fiber filled phenolic molding compound with excellent mechanical and thermal properties. UL listed. USES: Solenoid covers or automotive under-bonnet applications such as: water pumps, impeller, thermostat housings, pulleys, cam shaft gear wheels and fuel rails. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X613-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	Powder Density; ISO 60
Density	1.60 g/cc	0.0578 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	100 MPa	14500 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	Tensile; ISO 527
	1.6 %	1.6 %	Flexure; ISO 178
Tensile Modulus	14.0 GPa	2030 ksi	ISO 527
Flexural Strength	200 MPa	29000 psi	At Rupture; ISO 178
Flexural Modulus	12.5 GPa	1810 ksi	ISO 178
Compressive Strength	260 MPa	37700 psi	ISO 604
Charpy Impact Unnotched	1.35 J/cm ²	6.42 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.380 J/cm ²	1.81 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	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	ISO 75 Af
	V-0	V-0	

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	0.060 %	0.060 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	DIN 53482
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 93
Insulation Resistance	5.00e+10 ohm	5.00e+10 ohm	Wet; 24 hours in water; IEC 167
	1.00e+11 ohm	1.00e+11 ohm	Dry; IEC 167
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243
Comparative Tracking Index	125 V	125 V	IEC 112

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

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