

Vyncolit X680 Novolac Phenolic

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

Material Notes:

Glass fiber and glass bead filled phenolic molding compound with excellent mechanical and thermal properties. Easily transformed into complex shapes. UL listed. USES: Complex precision parts with thin cross section and good mechanical properties e.g. insulators, spacers, edge connectors, coil former, timer parts and computer components. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X680-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	Powder Density; ISO 60
Density	1.68 g/cc	0.0607 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	75.0 MPa	10900 psi	ISO 527
Elongation at Break	0.65 %	0.65 %	Tensile; ISO 527
	1.6 %	1.6 %	Flexure; ISO 178
Tensile Modulus	13.5 GPa	1960 ksi	ISO 527
Flexural Strength	190 MPa	27600 psi	At Rupture; ISO 178
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
Compressive Strength	280 MPa	40600 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 $\mu\text{m}/\text{m}\cdot\text{C}^{\circ}$	13.9 $\mu\text{in}/\text{in}\cdot\text{F}^{\circ}$	TMA
	@Temperature 20.0 C°	@Temperature 68.0 F°	
CTE, linear, Transverse to Flow	45.0 $\mu\text{m}/\text{m}\cdot\text{C}^{\circ}$	25.0 $\mu\text{in}/\text{in}\cdot\text{F}^{\circ}$	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	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	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
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	1.00e+11 ohm	1.00e+11 ohm	Wet; 24 hours in water; IEC 167
	1.00e+13 - 1.00e+14 ohm	1.00e+13 - 1.00e+14 ohm	Dry; IEC 167
Dielectric Strength	20.0 kV/mm	508 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 & Glass Bead	
Molding Method	Compression, transfer, injection	

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