

## Vyncolit X6952 Novolac Phenolic

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

### Material Notes:

Glass fiber reinforced phenolic molding compound with superior mechanical properties: very high tensile and flexural strength combined with high elongation at break. USES: Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vyncolit-X6952-Novolac-Phenolic.php](http://www.lookpolymers.com/polymer_Vyncolit-X6952-Novolac-Phenolic.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in <sup>3</sup>	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in <sup>3</sup>	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0017 cm/cm	0.0017 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	Tensile; ISO 527
	1.6 %	1.6 %	Flexure; ISO 178
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527
Flexural Strength	250 MPa	36300 psi	At Rupture; ISO 178
Flexural Modulus	17.5 GPa	2540 ksi	ISO 178
Compressive Strength	280 MPa	40600 psi	ISO 604
Charpy Impact Unnotched	2.10 J/cm <sup>2</sup>	9.99 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	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	30.0 μm/m-°C	16.7 μin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO 75 Af
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.020 %	0.020 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+12 ohm-cm	4.00e+12 ohm-cm	DIN 53482
Surface Resistance	7.00e+12 ohm	7.00e+12 ohm	IEC 93
Insulation Resistance	1.00e+11 ohm	1.00e+11 ohm	Wet; 24 hours in water; IEC 167
	1.00e+12 ohm	1.00e+12 ohm	Dry; IEC 167
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	Green	
ISO type	PF 2 C3	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer, injection	

## Contact Songhan Plastic Technology Co.,Ltd.

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