

## Vyncolit X7012 Glass Fiber Reinforced Novolac Phenolic

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

### Material Notes:

Novolac resin based, glass fiber and glass beads reinforced. High mechanical strength even at high temperatures in Long Life

CoolantsInformation provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vyncolit-X7012-Glass-Fiber-Reinforced-Novolac-Phenolic.php](http://www.lookpolymers.com/polymer_Vyncolit-X7012-Glass-Fiber-Reinforced-Novolac-Phenolic.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in <sup>3</sup>	ISO 60
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.080 %	0.080 %	ISO 62
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527-1
Elongation at Break	0.80 %	0.80 %	ISO 527-1
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527-1
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
Compressive Strength	260 MPa	37700 psi	ISO 604
Charpy Impact Unnotched	1.25 J/cm <sup>2</sup>	5.95 ft-lb/in <sup>2</sup>	ISO 179-1
Charpy Impact, Notched	0.380 J/cm <sup>2</sup>	1.81 ft-lb/in <sup>2</sup>	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.0 μm/m-°C	10.6 μin/in-°F	TMA
CTE, linear, Transverse to Flow	55.0 μm/m-°C	30.6 μin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 213 °C	>= 415 °F	ISO 75 Af
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.090 %	0.090 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.02e+14 ohm-cm	7.02e+14 ohm-cm	IEC 60093
Surface Resistance	1.91e+13 ohm	1.91e+13 ohm	IEC 60093
Dielectric Strength	17.0 kV/mm	432 kV/in	IEC 60243-1
Comparative Tracking Index	175 V	175 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Green	
Molding Method	Compression	
	Injection	
	Transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

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