

Vyncolit X640 Resole Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

Glass fiber filled phenolic molding compound with excellent mechanical and thermal properties. USES: Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X640-Resole-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	ISO 527
Elongation at Break	0.80 %	0.80 %	Tensile; ISO 527
	1.5 %	1.5 %	Flexure; ISO 178
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527
Flexural Strength	240 MPa	34800 psi	At Rupture; ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Compressive Strength	275 MPa	39900 psi	ISO 604
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 µm/m-°C @Temperature 20.0 °C	13.9 µin/in-°F @Temperature 68.0 °F	TMA
CTE, linear, Transverse to Flow	45.0 µm/m-°C @Temperature 20.0 °C	25.0 µin/in-°F @Temperature 68.0 °F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75 Af
Flammability, UL94	V-1	V-1	

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	0.25 %	0.25 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
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	
ISO type	PF 1 C1	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer, injection	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China