

Vyncolit X655 Novolac Phenolic

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

Material Notes:

Glass fiber and mineral filled phenolic molding compound with excellent dimensional stability and a very low coefficient of thermal expansion. UL listed. USES: Automotive disc brake pistons and gaskets, automatic gearbox thrust washers. Complex precision parts for compact disc players and automotive injection fuel pump bodies/impellers. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X655-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	1.05 g/cc	0.0379 lb/in ³	Powder Density; ISO 60
Density	2.08 g/cc	0.0751 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527
Elongation at Break	0.40 %	0.40 %	Tensile; ISO 527
	0.75 %	0.75 %	Flexure; ISO 178
Tensile Modulus	28.0 GPa	4060 ksi	ISO 527
Flexural Strength	170 MPa	24700 psi	At Rupture; ISO 178
Flexural Modulus	25.0 GPa	3630 ksi	ISO 178
Compressive Strength	300 MPa	43500 psi	ISO 604
Charpy Impact Unnotched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 μm/m-°C @Temperature 20.0 °C	7.78 μin/in-°F @Temperature 68.0 °F	TMA
CTE, linear, Transverse to Flow	20.0 μm/m-°C @Temperature 20.0 °C	11.1 μin/in-°F @Temperature 68.0 °F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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	0.010 %	0.010 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+13 - 1.00e+14 ohm	1.00e+13 - 1.00e+14 ohm	Dry; IEC 167
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243
Comparative Tracking Index	200 V	200 V	IEC 112

Descriptive Properties	Value	Comments
Color	Dark Green	
ISO type	PF 2 C3	
Main Filler	Glass Fiber & Mineral	
Molding Method	Compression, transfer, injection	

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