Vyncolit X689 Novolac Phenolic

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

Material Notes:

Glass fiber filled and molybdeendisulfide modified phenolic molding compound with excellent mechanical and thermal properties and lower thermal expansion coefficient. It has excellent friction properties. USES: Water pump seals and self-lubricating bearings.Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:
http://www.lookpolymers.com/polymer_Vyncolit-X689-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in³	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527
Elongation at Break	0.70 %	0.70 %	Tensile; ISO 527
	1.5 %	1.5 %	Flexure; ISO 178
Tensile Modulus	15.0 GPa	2180 ksi	ISO 527
Flexural Strength	160 MPa	23200 psi	At Rupture; ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
Compressive Strength	245 MPa	35500 psi	ISO 604
Charpy Impact Unnotched	1.00 J/cm²	4.76 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.300 J/cm²	1.43 ft-lb/in²	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)	180 °C	356 °F	ISO 75 Af
Shrinkage	0.15 %	0.15 %	Post Shrinkage; ISO 2577

Thermal Properties	Metric	English	Comments
Electrical Properties	**Metric**	**English**	**Comments**
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 243
Comparative Tracking Index	125 V	125 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C1	
Main Filler	Glass Fiber & Molybdenum Disulfide	
Molding Method	Compression, transfer, injection	

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