

Vyncolit X681 Novolac Phenolic

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

Material Notes:

Glass fiber filled phenolic molding compound with excellent mechanical properties and a low coefficient of friction. Tribological compound with PTFE additive. 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-X681-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.850 g/cc	0.0253 - 0.0307 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 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 - 60.0 MPa	7250 - 8700 psi	ISO 527
Elongation at Break	0.60 - 0.70 %	0.60 - 0.70 %	Tensile; ISO 527
	1.3 - 1.4 %	1.3 - 1.4 %	Flexure; ISO 178
Tensile Modulus	9.50 - 11.5 GPa	1380 - 1670 ksi	ISO 527
Flexural Strength	130 - 150 MPa	18900 - 21800 psi	At Rupture; ISO 178
Flexural Modulus	9.00 - 11.0 GPa	1310 - 1600 ksi	ISO 178
Compressive Strength	220 - 240 MPa	31900 - 34800 psi	ISO 604
Charpy Impact Unnotched	0.750 - 0.900 J/cm ²	3.57 - 4.28 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.250 - 0.400 J/cm ²	1.19 - 1.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	40.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	22.2 - 27.8 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	170 - 190 $^\circ\text{C}$	338 - 374 $^\circ\text{F}$	ISO 75 Af
Deflection Temperature at 8.0 MPa	150 - 170 $^\circ\text{C}$	302 - 338 $^\circ\text{F}$	ISO 75 C

Shrinkage Thermal Properties	0.15 - 0.30 % Metric	0.15 - 0.30 % English	Post Shrinkage; ISO 2577 Comments
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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	175 V	175 V	IEC 112

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

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