

Vyncolit X682 Novolac Phenolic

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

Material Notes:

Glass fiber, glass bead and graphite filled phenolic molding compound with excellent mechanical properties and a low coefficient of friction. 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-X682-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 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 - 85.0 MPa	8700 - 12300 psi	ISO 527
Elongation at Break	0.60 - 0.70 %	0.60 - 0.70 %	Tensile; ISO 527
	1.3 - 1.5 %	1.3 - 1.5 %	Flexure; ISO 178
Tensile Modulus	12.5 - 14.5 GPa	1810 - 2100 ksi	ISO 527
Flexural Strength	140 - 180 MPa	20300 - 26100 psi	At Rupture; ISO 178
Flexural Modulus	11.0 - 14.0 GPa	1600 - 2030 ksi	ISO 178
Compressive Strength	240 - 280 MPa	34800 - 40600 psi	ISO 604
Charpy Impact Unnotched	0.800 - 1.10 J/cm ²	3.81 - 5.24 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 - 180 $^\circ\text{C}$	338 - 356 $^\circ\text{F}$	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	0.050 - 0.15 %	0.050 - 0.15 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	Dry; IEC 167
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 243
Comparative Tracking Index	125 V	125 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black, Green	
ISO type	PF 2 C1	
Main Filler	Glass Fiber, Glass Bead, Graphite	
Molding Method	Compression, transfer, injection	

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