

Vyncolit 3640 CG Novolac Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

Material Notes:

Graphite filled phenolic molding compound with excellent dimensional stability. Self-lubricating and has a low coefficient of friction. Not suitable for electrical applications. USES: Gas meter parts, 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-3640-CG-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 - 0.950 g/cc	0.0271 - 0.0343 lb/in ³	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0045 - 0.0055 cm/cm	0.0045 - 0.0055 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527
Elongation at Break	0.20 - 0.30 %	0.20 - 0.30 %	Tensile; ISO 527
	0.50 - 0.60 %	0.50 - 0.60 %	Flexure; ISO 178
Tensile Modulus	19.0 - 21.0 GPa	2760 - 3050 ksi	ISO 527
Flexural Strength	70.0 - 90.0 MPa	10200 - 13100 psi	At Rupture; ISO 178
Flexural Modulus	14.0 - 19.0 GPa	2030 - 2760 ksi	ISO 178
Compressive Strength	100 - 120 MPa	14500 - 17400 psi	ISO 604
Charpy Impact Unnotched	0.200 - 0.300 J/cm ²	0.952 - 1.43 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.100 - 0.200 J/cm ²	0.476 - 0.952 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	11.1 - 16.7 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	TMA
CTE, linear, Transverse to Flow	20.0 - 30.0 $\mu\text{m/m-}^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	11.1 - 16.7 $\mu\text{in/in-}^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	TMA
Deflection Temperature at 1.8 MPa (264 psi)	135 - 150 $^{\circ}\text{C}$	275 - 302 $^{\circ}\text{F}$	ISO 75 Af
	V-1	V-1	

Flammability: UL 94 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		0.050 - 0.15 %	0.050 - 0.15 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C4	
Main Filler	Graphite	
Molding Method	Compression, transfer, injection	

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