

Vyncolit TX10916 Graphite Filled Novolac Phenolic

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

Material Notes:

Novolac resin based, graphite filled compound used for low friction applications where dimensional stability is required. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-TX10916-Graphite-Filled-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ISO 60
Density	1.63 g/cc	0.0589 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0044 cm/cm	0.0044 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527-1
Elongation at Break	0.47 %	0.47 %	ISO 527-1
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-1
Flexural Strength	93.0 MPa	13500 psi	ISO 178
Flexural Modulus	15.0 GPa	2180 ksi	ISO 178
Compressive Strength	162 MPa	23500 psi	ISO 604
Charpy Impact Unnotched	0.290 J/cm ²	1.38 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.130 J/cm ²	0.619 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 μm/m-°C	11.1 μin/in-°F	TMA
CTE, linear, Transverse to Flow	28.0 μm/m-°C	15.6 μin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 166 °C	>= 331 °F	ISO 75 Af
Shrinkage	0.080 %	0.080 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	

Descriptive Properties	Value	Comments
Molding Method	Compression	
	Injection	
	Transfer	

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