

Vyncolit A2990 Glass Fiber Reinforced Novolac Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

Resole resin based, glass fiber reinforced. Good mechanical properties, combined with superior electrical insulation properties. Among others used for commutator applications. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-A2990-Glass-Fiber-Reinforced-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.790 g/cc	0.0285 lb/in ³	ISO 60
Density	1.80 g/cc	0.0650 lb/in ³	ISO 1183
Water Absorption	0.11 %	0.11 %	ISO 62
Linear Mold Shrinkage	0.0023 cm/cm	0.0023 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ISO 527-1
Elongation at Break	0.88 %	0.88 %	ISO 527-1
Tensile Modulus	18.0 GPa	2610 ksi	ISO 527-1
Flexural Strength	185 MPa	26800 psi	ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
Compressive Strength	257 MPa	37300 psi	ISO 604
Charpy Impact Unnotched	1.34 J/cm ²	6.38 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.340 J/cm ²	1.62 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	5.00 μm/m-°C	2.78 μin/in-°F	TMA
CTE, linear, Transverse to Flow	40.0 μm/m-°C	22.2 μin/in-°F	TMA
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft ² -°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 155 °C	>= 311 °F	ISO 75 Af
Deflection Temperature at 8.0 MPa	136 °C	277 °F	ISO 75 Cf
Shrinkage	0.070 %	0.070 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.82e+15 ohm-cm	3.82e+15 ohm-cm	IEC 60093
Surface Resistance	7.36e+13 ohm	7.36e+13 ohm	IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243-1
Comparative Tracking Index	200 V	200 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	
	Injection	
	Transfer	

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