

Vyncolit W5020 Glass Filled Novolac Phenolic

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

Material Notes:

Novolac resin based, glass fiber and glass bead reinforced. High dimensional stability and excellent chemical resistance at high temperatures in hydraulic brake fluids. Used in the ABS system. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-W5020-Glass-Filled-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	ISO 60
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Water Absorption	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.0036 cm/cm	0.0036 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527-1
Elongation at Break	0.85 %	0.85 %	ISO 527-1
Tensile Modulus	14.0 GPa	2030 ksi	ISO 527-1
Flexural Strength	185 MPa	26800 psi	ISO 178
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
Compressive Strength	270 MPa	39200 psi	ISO 604
Charpy Impact Unnotched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.0 µm/m-°C	12.2 µin/in-°F	TMA
CTE, linear, Transverse to Flow	44.0 µm/m-°C	24.4 µin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 188 °C	>= 370 °F	ISO 75 Af
Flammability, UL94	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Shrinkage	0.050 %	0.050 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.17e+13 ohm-cm	3.17e+13 ohm-cm	IEC 60093
Surface Resistance	2.41e+13 ohm	2.41e+13 ohm	IEC 60093
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
Comparative Tracking Index	175 V	175 V	IEC 60250

Descriptive Properties	Value	Comments
Colors	Black, Green	
Molding Method	Compression	
	Injection	
	Transfer	

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