Vyncolit BXE7665 Glass Filled Phenolic Molding Compound

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

Material Notes:

Novolac resin based, mainly glass fiber filled. Excellent electrical properties combined with very good mechanical properties. Grade especially suitable for electrical applications.Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Vyncolit-BXE7665-Glass-Filled-Phenolic-Molding-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in³	ISO 60
Density	1.90 g/cc	0.0686 lb/in³	ISO 1183
Water Absorption	0.040 %	0.040 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	ISO 527-1
Elongation at Break	0.56 %	0.56 %	ISO 527-1
Tensile Modulus	22.0 GPa	3190 ksi	ISO 527-1
Flexural Strength	205 MPa	29700 psi	ISO 178
Flexural Modulus	21.0 GPa	3050 ksi	ISO 178
Compressive Strength	293 MPa	42500 psi	ISO 604
Charpy Impact Unnotched	1.17 J/cm²	5.57 ft-lb/in²	ISO 179-1
Charpy Impact, Notched	0.350 J/cm²	1.67 ft-lb/in²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 µm/m-°C	7.78 µin/in-°F	TMA
CTE, linear, Transverse to Flow	31.0 µm/m-°C	17.2 µin/in-°F	TMA
Thermal Conductivity	0.480 W/m-K	3.33 BTU-in/hr-ft²-°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 195 °C	>= 383 °F	ISO 75 Af
Deflection Temperature at 8.0 MPa	168 °C	334 °F	ISO 75 Cf
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Shrinkage	0.040 %	0.040 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.10e+14 ohm-cm	8.10e+14 ohm-cm	IEC 60093
Surface Resistance	4.30e+13 ohm	4.30e+13 ohm	IEC 60093
Dielectric Strength	19.0 kV/mm	483 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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