Vyncolit BXE7670 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. Due to its unique composition, excellent balance between mechanical, thermal and dimensional stability.Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Vyncolit-BXE7670-Glass-Filled-Phenolic-Molding-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in³	ISO 60
Density	1.84 g/cc	0.0665 lb/in³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0014 cm/cm	0.0014 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	ISO 527-1
Elongation at Break	0.68 %	0.68 %	ISO 527-1
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-1
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	18.0 GPa	2610 ksi	ISO 178
Compressive Strength	293 MPa	42500 psi	ISO 604
Charpy Impact Unnotched	1.39 J/cm²	6.61 ft-lb/in²	ISO 179-1
Charpy Impact, Notched	0.330 J/cm²	1.57 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	50.0 µm/m-°C	27.8 µin/in-°F	TMA
Thermal Conductivity	0.450 W/m-K	3.12 BTU-in/hr-ft²-°F	ASTM E1461
Deflection Temperature at 1.8 MPa (264 psi)	>= 223 °C	>= 433 °F	ISO 75 Af
Deflection Temperature at 8.0 MPa	171 °C	340 °F	ISO 75 Cf
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Flammability, UL 94	@Thickness 3.00 mm	@Thickness 0.118 in	
Shrinkage	0.040 %	0.040 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.15e+13 ohm-cm	4.15e+13 ohm-cm	IEC 60093
Surface Resistance	2.69e+13 ohm	2.69e+13 ohm	IEC 60093
Dielectric Strength	18.0 kV/mm	457 kV/in	IEC 60243-1
Comparative Tracking Index	175 V	175 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	
	Injection	
	Transfer	

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