

Vyncolit Neopreg Kinel® SK80 L8G Glass Fiber Reinforced Molding Compound

Category : Polymer , Thermoset , Epoxy , Epoxy Molding Compound , Filled/Reinforced Thermoset

Material Notes:

Epoxy based molding compound long glass fiber reinforced with excellent long term property retention over a wide temperature range and climate conditions. It is particularly suited for over molding and manufacturing of large commutators. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-Neopreg-Kinel-SK80-L8G-Glass-Fiber-Reinforced-Molding-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in ³	ISO 60
Density	1.79 g/cc	0.0647 lb/in ³	ISO 1183
Water Absorption	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.0011 cm/cm	0.0011 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ISO 527-1
Elongation at Break	0.70 %	0.70 %	ISO 527-1
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-1
Flexural Strength	255 MPa	37000 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Compressive Strength	265 MPa	38400 psi	ISO 604
Charpy Impact, Notched	5.40 J/cm ²	25.7 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	9.60 µm/m-°C	5.33 µin/in-°F	TMA
CTE, linear, Transverse to Flow	57.0 µm/m-°C	31.7 µin/in-°F	TMA
Thermal Conductivity	0.490 W/m-K	3.40 BTU-in/hr-ft ² -°F	ASTM E1461
Glass Transition Temp, Tg	195 °C	383 °F	
Shrinkage	-0.0200 %	-0.0200 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	29.0 kV/mm Metric	737 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.019 @Frequency 0.0001 - 1 Hz	0.019 @Frequency 0.0001 - 1 Hz	IEC 60250
Comparative Tracking Index	225 V	225 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Dark Grey	
Molding Method	Compression	
	Injection	
	Transfer	

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