

Vyncolit Neopreg Kinel® SK60 L8F Glass Fiber Reinforced Molding Compound

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

Material Notes:

Medium flow, 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. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-Neopreg-Kinel-SK60-L8F-Glass-Fiber-Reinforced-Molding-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 g/cc	0.0181 lb/in ³	ISO 60
Density	1.86 g/cc	0.0672 lb/in ³	ISO 1183
Water Absorption	0.050 %	0.050 %	ISO 62
Linear Mold Shrinkage	0.00090 cm/cm	0.00090 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	ISO 527-1
Elongation at Break	0.80 %	0.80 %	ISO 527-1
Tensile Modulus	21.0 GPa	3050 ksi	ISO 527-1
Flexural Strength	223 MPa	32300 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Compressive Strength	227 MPa	32900 psi	ISO 604
Charpy Impact, Notched	5.20 J/cm ²	24.7 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.90 µm/m-°C	4.39 µin/in-°F	TMA
CTE, linear, Transverse to Flow	59.0 µm/m-°C	32.8 µin/in-°F	TMA
Thermal Conductivity	0.560 W/m-K	3.89 BTU-in/hr-ft ² -°F	ASTM E1461
Glass Transition Temp, Tg	165 °C	329 °F	
Shrinkage	-0.0400 %	-0.0400 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	38.0 kV/mm Metric	965 kV/in English	IEC 60243-1 Comments
Dissipation Factor	0.022 @Frequency 100 - 1e+6 Hz	0.022 @Frequency 100 - 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60250

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

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