

Vyncolit Neopreg Kinel® SK4525 S5 Glass Fiber Reinforced Molding Compound

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

Material Notes:

BMI molding compound long glass fiber reinforced with excellent mechanical and thermal properties. Especially suited to be used for injection molding. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-Neopreg-Kinel-SK4525-S5-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	1.66 g/cc	0.0600 lb/in ³	ISO 1183
Water Absorption	0.26 %	0.26 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ISO 527-1
	@Temperature 250 °C	@Temperature 482 °F	
	98.0 MPa	14200 psi	ISO 527-1
Elongation at Break	@Temperature 150 °C	@Temperature 302 °F	ISO 527-1
	130 MPa	18900 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 527-1
Tensile Modulus	0.60 %	0.60 %	ISO 527-1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.60 %	0.60 %	ISO 527-1
	@Temperature 150 °C	@Temperature 302 °F	ISO 527-1
	0.70 %	0.70 %	
	@Temperature 250 °C	@Temperature 482 °F	ISO 527-1
	14.0 GPa	2030 ksi	ISO 527-1
	@Temperature 250 °C	@Temperature 482 °F	
	18.0 GPa	2610 ksi	ISO 527-1
	@Temperature 150 °C	@Temperature 302 °F	ISO 527-1
	28.0 GPa	4060 ksi	
			ISO 527-1

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Flexural Strength	135 MPa	19600 psi	ISO 178
	@Temperature 250 °C	@Temperature 482 °F	
	287 MPa	41600 psi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 178
	325 MPa	47100 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	13.0 GPa	1890 ksi	ISO 178
	@Temperature 250 °C	@Temperature 482 °F	
	23.0 GPa	3340 ksi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 178
	26.0 GPa	3770 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Strength	127 MPa	18400 psi	ISO 604
	@Temperature 250 °C	@Temperature 482 °F	
	219 MPa	31800 psi	
	@Temperature 150 °C	@Temperature 302 °F	ISO 604
	306 MPa	44400 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	5.20 J/cm²	24.7 ft-lb/in²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	11.0 µm/m-°C	6.11 µin/in-°F	TMA
CTE, linear, Transverse to Flow	45.0 µm/m-°C	25.0 µin/in-°F	TMA
Glass Transition Temp, Tg	275 °C	527 °F	
Shrinkage	0.00 %	0.00 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	275 V	275 V	IEC 60250

Descriptive Properties	Value	Comments
Color	Dark Grey	

Descriptive Properties	Value	Comments
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