

Vyncolit Neopreg Kinel® SK4504 S12 Carbon Reinforced Molding Compound

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

Material Notes:

Epoxy based molding compound long carbon fiber reinforced suited for demanding tribologic applications under dry running conditions, exposed to a wide range of temperatures (-100°C up to 150°C). Superior creep resistance and dimensional stability. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-Neopreg-Kinel-SK4504-S12-Carbon-Reinforced-Molding-Compound.php

Physical Properties	Metric	English	Comments
Bulk Density	0.350 g/cc	0.0126 lb/in ³	ISO 60
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.00020 cm/cm	0.00020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	148 MPa	21500 psi	ISO 527-1
Elongation at Break	0.30 %	0.30 %	ISO 527-1
Tensile Modulus	46.0 GPa	6670 ksi	ISO 527-1
Flexural Strength	363 MPa	52600 psi	ISO 178
Flexural Modulus	32.0 GPa	4640 ksi	ISO 178
Compressive Strength	230 MPa	33400 psi	ISO 604
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.30 μm/m-°C	1.83 μin/in-°F	TMA
CTE, linear, Transverse to Flow	40.0 μm/m-°C	22.2 μin/in-°F	TMA
Glass Transition Temp, Tg	195 °C	383 °F	
Shrinkage	-0.0100 %	-0.0100 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	

Molding Method Descriptive Properties	Compression Value	Comments
	Injection	
	Transfer	

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