

## Vyncolit Neopreg Kinel® SK4502 S8 Carbon Reinforced Molding Compound

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

### Material Notes:

KINEL® SK4502 S8 is a long carbon fiber reinforced BMI molding compound suited for very demanding tribological applications, high speeds and temperatures even under dry running conditions. Thermal expansion similar to steel. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vyncolit-Neopreg-Kinel-SK4502-S8-Carbon-Reinforced-Molding-Compound.php](http://www.lookpolymers.com/polymer_Vyncolit-Neopreg-Kinel-SK4502-S8-Carbon-Reinforced-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.290 g/cc	0.0105 lb/in <sup>3</sup>	ISO 60
Density	1.52 g/cc	0.0549 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.19 %	0.19 %	ISO 62
Linear Mold Shrinkage	0.00040 cm/cm	0.00040 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	ISO 527-1
	@Temperature 250 °C	@Temperature 482 °F	
	123 MPa	17800 psi	ISO 527-1
	@Temperature 150 °C	@Temperature 302 °F	
	165 MPa	23900 psi	ISO 527-1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Elongation at Break	0.30 %	0.30 %	ISO 527-1
	@Temperature 250 °C	@Temperature 482 °F	
	0.40 %	0.40 %	ISO 527-1
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.40 %	0.40 %	ISO 527-1
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	29.0 GPa	4210 ksi	ISO 527-1
	@Temperature 250 °C	@Temperature 482 °F	
	32.0 GPa	4640 ksi	ISO 527-1
	@Temperature 150 °C	@Temperature 302 °F	

Mechanical Properties	44.0 GPa Metric	6380 ksi English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Strength	256 MPa	37100 psi	ISO 178
	@Temperature 250 °C	@Temperature 482 °F	
	345 MPa	50000 psi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	353 MPa	51200 psi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Flexural Modulus	30.0 GPa	4350 ksi	ISO 178
	@Temperature 150 °C	@Temperature 302 °F	
	30.0 GPa	4350 ksi	ISO 178
	@Temperature 250 °C	@Temperature 482 °F	
	32.0 GPa	4640 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compressive Strength	170 MPa	24700 psi	ISO 604
	@Temperature 250 °C	@Temperature 482 °F	
	172 MPa	24900 psi	ISO 604
	@Temperature 150 °C	@Temperature 302 °F	
	176 MPa	25500 psi	ISO 604
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	275 °C	527 °F	
Shrinkage	-0.0600 %	-0.0600 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Black	
Molding Method	Compression	
	Injection	
	Transfer	

## **Contact Songhan Plastic Technology Co.,Ltd.**

**Website : [www.lookpolymers.com](http://www.lookpolymers.com)**

**Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)**

**Tel : +86 021-51131842**

**Mobile : +86 13061808058**

**Skype : lookpolymers**

**Address : United North Road 215,Fengxian District, Shanghai City,China**