

Vyncolit 4523 XB Novolac Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

Organic and inorganic filled phenolic molding compound with good mechanical and thermal properties. Improved heat resistance compared to organic filled compounds. USES: Fuse holders, brush holders, circuit breakers, automotive ignition and solenoid covers. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-4523-XB-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	Powder Density; ISO 60
Density	1.60 g/cc	0.0578 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527
Elongation at Break	0.60 %	0.60 %	Tensile; ISO 527
	1.5 %	1.5 %	Flexure; ISO 178
Tensile Modulus	10.0 GPa	1450 ksi	ISO 527
Flexural Strength	95.0 MPa	13800 psi	At Rupture; ISO 178
Flexural Modulus	9.50 GPa	1380 ksi	ISO 178
Compressive Strength	200 MPa	29000 psi	ISO 604
Charpy Impact Unnotched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	27.8 $\mu\text{in}/\text{in}^{\circ}\text{F}$	TMA
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	60.0 $\mu\text{m}/\text{m}^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}^{\circ}\text{F}$	TMA
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	175 $^{\circ}\text{C}$	347 $^{\circ}\text{F}$	ISO 75 Af
	V-1	V-1	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.35 %	0.35 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	DIN 53482
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 93
Insulation Resistance	1.00e+10 ohm	1.00e+10 ohm	Dry; IEC 167
	1.00e+10 ohm	1.00e+10 ohm	Wet; 24 hours in water; IEC 167
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 243
Comparative Tracking Index	175 V	175 V	IEC 112

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C3	
Main Filler	Organic & Inorganic	
Molding Method	Compression, transfer, injection	

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