

Vyncolit 2723 W Novolac Phenolic

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

Material Notes:

Mineral and organic filled phenolic molding compound with excellent mechanical, thermal and dielectric properties. I2/FO classified under NF F 16-101 (Fire & Smoke classification). USES: Circuit breaker parts. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-2723-W-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 - 0.800 g/cc	0.0235 - 0.0289 lb/in ³	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 - 50.0 MPa	5800 - 7250 psi	ISO 527
Elongation at Break	0.70 - 0.80 %	0.70 - 0.80 %	Tensile; ISO 527
	1.45 - 1.55 %	1.45 - 1.55 %	Flexure; ISO 178
Tensile Modulus	12.5 - 14.0 GPa	1810 - 2030 ksi	ISO 527
Flexural Strength	90.0 - 110 MPa	13100 - 16000 psi	At Rupture; ISO 178
Flexural Modulus	6.00 - 8.00 GPa	870 - 1160 ksi	ISO 178
Compressive Strength	200 - 230 MPa	29000 - 33400 psi	ISO 604
Charpy Impact Unnotched	0.800 - 1.00 J/cm ²	3.81 - 4.76 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 - 0.300 J/cm ²	0.952 - 1.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 - 40.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	16.7 - 22.2 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	40.0 - 50.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	22.2 - 27.8 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	160 - 180 $^\circ\text{C}$	320 - 356 $^\circ\text{F}$	ISO 75 Af
Deflection Temperature at 8.0 MPa	130 - 150 $^\circ\text{C}$	266 - 302 $^\circ\text{F}$	ISO 75 C

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.10 - 0.20 %	0.10 - 0.20 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	DIN 53482
Insulation Resistance	5.00e+10 ohm	5.00e+10 ohm	Wet; 24 hours in water; IEC 167
	1.00e+11 ohm	1.00e+11 ohm	Dry; IEC 167
Dielectric Strength	30.0 kV/mm	762 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	Mineral & Organic	
Molding Method	Compression, transfer, injection	

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