

Vyncolit 2950 W Novolac Phenolic

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

Material Notes:

Mineral and glass fiber filled phenolic molding compound with a very high strain to failure in flexure. UL listed. USES: Armature insulation. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-2950-W-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 - 0.750 g/cc	0.0217 - 0.0271 lb/in ³	Powder Density; ISO 60
Density	1.70 g/cc	0.0614 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 - 75.0 MPa	9430 - 10900 psi	ISO 527
Elongation at Break	1.05 - 1.15 %	1.05 - 1.15 %	Tensile; ISO 527
	1.6 - 1.8 %	1.6 - 1.8 %	Flexure; ISO 178
Tensile Modulus	9.50 - 11.5 GPa	1380 - 1670 ksi	ISO 527
Flexural Strength	140 - 160 MPa	20300 - 23200 psi	At Rupture; ISO 178
Flexural Modulus	7.50 - 9.00 GPa	1090 - 1310 ksi	ISO 178
Compressive Strength	190 - 220 MPa	27600 - 31900 psi	ISO 604
Charpy Impact Unnotched	1.30 - 1.50 J/cm ²	6.19 - 7.14 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.450 - 0.550 J/cm ²	2.14 - 2.62 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 μm/m-°C	11.1 - 16.7 μin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	30.0 - 40.0 μm/m-°C	16.7 - 22.2 μin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	170 - 190 °C	338 - 374 °F	ISO 75 Af
Deflection Temperature at 8.0 MPa	150 - 170 °C	302 - 338 °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
Insulation Resistance	1.00e+11 - 1.00e+13 ohm	1.00e+11 - 1.00e+13 ohm	Dry; IEC 167
Dielectric Strength	35.0 kV/mm	889 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	Glass Fiber & Mineral	
Molding Method	Compression, transfer, injection	

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