

Vyncolit G885 Novolac Phenolic

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

Material Notes:

Glass fiber and mineral filled phenolic molding compound with excellent mechanical and thermal properties. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-G885-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 - 0.850 g/cc	0.0253 - 0.0307 lb/in ³	Powder Density; ISO 60
Density	1.82 g/cc	0.0658 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 - 70.0 MPa	7250 - 10200 psi	ISO 527
Elongation at Break	0.30 - 0.40 %	0.30 - 0.40 %	Tensile; ISO 527
	0.90 - 1.0 %	0.90 - 1.0 %	Flexure; ISO 178
Tensile Modulus	17.5 - 19.5 GPa	2540 - 2830 ksi	ISO 527
Flexural Strength	95.0 - 115 MPa	13800 - 16700 psi	At Rupture; ISO 178
Flexural Modulus	12.0 - 14.0 GPa	1740 - 2030 ksi	ISO 178
Compressive Strength	180 - 220 MPa	26100 - 31900 psi	ISO 604
Charpy Impact Unnotched	0.900 - 1.10 J/cm ²	4.28 - 5.24 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.350 - 0.550 J/cm ²	1.67 - 2.62 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	25.0 - 35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.9 - 19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	200 - 220 $^\circ\text{C}$	392 - 428 $^\circ\text{F}$	ISO 75 A
Deflection Temperature at 8.0 MPa	165 - 185 $^\circ\text{C}$	329 - 365 $^\circ\text{F}$	ISO 75 C

Thermal Properties	^{V-1} Metric	^{V-1} English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.050 - 0.15 %	0.050 - 0.15 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Insulation Resistance	1.00e+12 - 1.00e+13 ohm	1.00e+12 - 1.00e+13 ohm	Dry; IEC 167
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 243
Comparative Tracking Index	200 V	200 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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