

Vyncolit 3520 CG Novolac Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

Material Notes:

Graphite filled phenolic molding compound with excellent dimensional stability. Self-lubricating and has a low coefficient of friction. Not suitable for electrical applications. USES: Gas meter parts, water pump seals and self-lubricating bearings. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-3520-CG-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 - 0.900 g/cc	0.0271 - 0.0325 lb/in ³	Powder Density; ISO 60
Density	1.63 g/cc	0.0589 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0060 cm/cm	0.0050 - 0.0060 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527
Elongation at Break	0.20 - 0.30 %	0.20 - 0.30 %	Tensile; ISO 527
	0.60 - 0.70 %	0.60 - 0.70 %	Flexure; ISO 178
Tensile Modulus	13.0 - 15.0 GPa	1890 - 2180 ksi	ISO 527
Flexural Strength	65.0 - 85.0 MPa	9430 - 12300 psi	At Rupture; ISO 178
Flexural Modulus	10.0 - 12.0 GPa	1450 - 1740 ksi	ISO 178
Compressive Strength	110 - 130 MPa	16000 - 18900 psi	ISO 604
Charpy Impact Unnotched	0.250 - 0.350 J/cm ²	1.19 - 1.67 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.150 - 0.250 J/cm ²	0.714 - 1.19 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 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	150 - 170 $^\circ\text{C}$	302 - 338 $^\circ\text{F}$	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
Flammability, UL94	@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

Descriptive Properties	Value	Comments
Color	Black	
ISO type	PF 2 C4	
Main Filler	Graphite	
Molding Method	Compression, transfer, injection	

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