

Vyncolit X658 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 and a very good dimensional stability. USES: Complex precision parts. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-X658-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 - 1.05 g/cc	0.0325 - 0.0379 lb/in ³	Powder Density; ISO 60
Density	2.10 g/cc	0.0759 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	40.0 - 60.0 MPa	5800 - 8700 psi	ISO 527
Elongation at Break	0.30 - 0.50 %	0.30 - 0.50 %	Tensile; ISO 527
	0.75 - 0.85 %	0.75 - 0.85 %	Flexure; ISO 178
Tensile Modulus	17.5 - 19.5 GPa	2540 - 2830 ksi	ISO 527
Flexural Strength	80.0 - 100 MPa	11600 - 14500 psi	At Rupture; ISO 178
Flexural Modulus	12.0 - 14.0 GPa	1740 - 2030 ksi	ISO 178
Compressive Strength	220 - 260 MPa	31900 - 37700 psi	ISO 604
Charpy Impact Unnotched	0.400 - 0.600 J/cm ²	1.90 - 2.86 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 - 0.400 J/cm ²	0.952 - 1.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 - 25.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	8.33 - 13.9 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot\text{C}^\circ$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot\text{F}^\circ$	TMA
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	180 - 200 $^\circ\text{C}$	356 - 392 $^\circ\text{F}$	ISO 75 Af
Deflection Temperature at 8.0 MPa	155 - 170 $^\circ\text{C}$	311 - 338 $^\circ\text{F}$	ISO 75 C

Thermal Properties	V-0 Metric	V-0 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
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	Glass Fiber & Mineral	
Molding Method	Compression, transfer, injection	

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