

Vyncolit G865 Novolac Phenolic

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

Material Notes:

Glass fiber filled phenolic molding compound with high mechanical, good thermal and electrical properties. USES: Asbestos-free replacement for die-cast automotive metal parts, e.g. reactors for automatic gear boxes. Multi-V pulleys. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Vyncolit-G865-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	Powder Density; ISO 60
Density	1.85 g/cc	0.0668 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Injection Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Elongation at Break	0.50 %	0.50 %	Tensile; ISO 527
	1.0 %	1.0 %	Flexure; ISO 178
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527
Flexural Strength	150 MPa	21800 psi	At Rupture; ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
Compressive Strength	190 MPa	27600 psi	ISO 604
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75 Af
	V-0	V-0	

Flammability UL 94 Thermal Properties	Metric @Thickness 1.60 mm	English @Thickness 0.0630 in	Comments
	V-0	V-0	
	@Thickness 4.00 mm	@Thickness 0.157 in	
Shrinkage	0.10 %	0.10 %	Post Shrinkage; ISO 2577

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.0 kV/mm	635 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	
Molding Method	Compression, transfer, injection	

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