

Perstorp Compounds Aminel GF Melamine

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Melamine , Melamine Formaldehyde, Molded, Glass Fiber Filler

Material Notes:

Fiberglass-reinforced melamine material with high dimensional stability, excellent injection properties and high thermal stability. Information provided by Perstorp Compounds Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Perstorp-Compounds-Aminel-GF-Melamine.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0016 cm/cm	0.0016 in/in	DIN 53 464
Linear Mold Shrinkage, Transverse	0.0043 cm/cm	0.0043 in/in	

Mechanical Properties	Metric	English	Comments
Flexural Strength	160 - 180 MPa	23200 - 26100 psi	ISO 178
Flexural Modulus	12.0 - 13.0 GPa	1740 - 1890 ksi	ISO 178
Charpy Impact Unnotched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.258 W/m-K	1.79 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 270 °C	>= 518 °F	ISO 175
Deflection Temperature at 8.0 MPa	170 °C	338 °F	ISO 175
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 30 %	>= 30 %	ASTM D2863
Shrinkage	0.45 %	0.45 %	parallel, Post Shrinkage; DIN 53 464
	0.85 %	0.85 %	transverse, Post Shrinkage

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	DIN 53 483
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	DIN 53 482
Dielectric Constant			DIN 53 483

Electrical Properties	6.0 - 7.0 Metric	6.0 - 7.0 English	Comments
Dissipation Factor	0.080 @Frequency 1000 Hz	0.080 @Frequency 1000 Hz	tan delta; DIN 53 483
Arc Resistance	>= 130 sec	>= 130 sec	ASTM D495
Comparative Tracking Index	>= 700 V	>= 700 V	IEC 112

Descriptive Properties	Value	Comments
Glow Bar 960°C 180 sec	BH2-5	IEC 707
Water Absorption [mg]	<200	DIN 53 495/23°C 96h

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