

Azdel Plus C321-B01 32% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C321-B01 is a glass mat thermoplastic laminate based upon a random oriented chopped fiber mat contained within a polypropylene resin matrix. This composite material features high flow properties and a very homogeneous fiber distribution. This material is typically used for standard semi-structural thin wall applications and where good glass distributions into features such as ribs and bosses is desired. Mechanical properties and mold shrinkage measured on flat plaques. Information provided by Azdel.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Azdel-Plus-C321-B01-32-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Laminate; ASTM D792
	1.14 g/cc	1.14 g/cc	Molded; ASTM D792
Filler Content	32 %	32 %	By weight (ashing); Internal
Thickness	3600 microns	142 mil	Sheet; Internal
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Measured on flat plaques; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ISO 527
Tensile Modulus	4.62 GPa	670 ksi	ISO 527
Flexural Strength	104 MPa	15100 psi	ISO 178
Flexural Modulus	4.574 GPa	663.4 ksi	ISO 178
Poissons Ratio	0.317	0.317	ISO 527
Izod Impact, Notched	5.60 J/cm	10.5 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact	220	220	Multi-axial in kg, at max. load; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	9.00 J	6.64 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
	18.0 J	13.3 ft-lb	Multi-axial, at failure; ASTM D3763

Mechanical Properties	@Thickness 4.00 mm Metric	@Thickness 0.157 in English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	36.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature -40.0 - 120 $^{\circ}\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature -40.0 - 248 $^{\circ}\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	151 $^{\circ}\text{C}$	304 $^{\circ}\text{F}$	ASTM D648
Flame Spread	5.08 mm/min	0.200 in/min	FMVSS302

Descriptive Properties	Value	Comments
Color	Black	Internal

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