

Azdel Plus C401-B01 40% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C401-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-C401-B01-40-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	Laminate; ASTM D792
	1.19 g/cc	1.19 g/cc	Molded; ASTM D792
Filler Content	40 %	40 %	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	105.7 MPa	15330 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ISO 527
Tensile Modulus	5.965 GPa	865.2 ksi	ISO 527
Flexural Strength	146 MPa	21200 psi	ISO 178
Flexural Modulus	5.519 GPa	800.5 ksi	ISO 178
Poissons Ratio	0.333	0.333	ISO 527
Izod Impact, Notched	4.69 J/cm	8.79 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact	254	254	Multi-axial in kg, at max. load; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	10.0 J	7.38 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
	18.8 J	13.9 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
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flame Spread	4.5 mm/min	0.18 in/min	FMVSS302

Descriptive Properties	Value	Comments
Color	Black	Internal

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