

Azdel Plus C220-B01 22% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C220-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-C220-B01-22-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	Laminate; ASTM D792
	1.07 g/cc	1.07 g/cc	Molded; ASTM D792
Filler Content	22 %	22 %	By weight (ashing); Internal
Thickness	3600 microns	142 mil	Sheet; Internal
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Measured on flat plaques; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	2.7 %	2.7 %	ISO 527
Tensile Modulus	3.40 GPa	493 ksi	ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Impact	4000	4000	Multi-axial in Newtons, at max. force; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	12.0 J	8.85 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	
	28.0 J	20.7 ft-lb	Multi-axial, at failure; ASTM D3763
	@Thickness 4.00 mm	@Thickness 0.157 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Black	Internal

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