

Azdel Plus C507-B01 50% Chopped Fiber Mat / PP Resin Matrix (Mineral filled)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C507-B01 is a glass mat thermoplastic laminate based upon a random oriented chopped fiber mat and mineral filler contained within a polypropylene resin matrix. This composite material features high flow properties and a very homogeneous fiber distribution and exhibits low part warpage after molding. This material is typically used for standard semi-structural thin wall applications and where good glass distribution 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-C507-B01-50-Chopped-Fiber-Mat-PP-Resin-Matrix-Mineral-filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	Laminate; ASTM D792
	1.31 g/cc	1.31 g/cc	Molded; ASTM D792
Filler Content	50 %	50 %	By weight (ashing); Internal
Thickness	4200 microns	165 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	144 MPa	20900 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ISO 527
Tensile Modulus	9.198 GPa	1334 ksi	ISO 527
Flexural Strength	168 MPa	24400 psi	ISO 178
Flexural Modulus	6.698 GPa	971.5 ksi	ISO 178
Poissons Ratio	0.234	0.234	ISO 527
Izod Impact, Notched (ISO)	35.3 kJ/m ²	16.8 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact	4205	4205	Multi-axial in Newtons, at max. load; ASTM D3763
	@Thickness 102 mm	@Thickness 4.00 in	
Impact Test	17.0 J	12.5 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Thickness 102 mm	@Thickness 4.00 in	

Mechanical Properties	31.0 J Metric	22.9 ft-lb English	Comments
	@Thickness 102 mm	@Thickness 4.00 in	, at failure, ASTM D3763

Descriptive Properties	Value	Comments
Color	Black	Internal

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