

Azdel Plus C327-B01 31% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C327-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-C327-B01-31-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Laminate; ISO 1183
	1.15 g/cc	1.15 g/cc	Molded; ISO 1183
Filler Content	31 %	31 %	By weight (ashing); Internal
Thickness	4320 microns	170 mil	Sheet; Internal
Linear Mold Shrinkage	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 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	2.8 %	2.8 %	ISO 527
Tensile Modulus	4.528 GPa	656.7 ksi	ISO 527
Flexural Strength	97.7 MPa	14200 psi	ISO 178
Flexural Modulus	4.26 GPa	618 ksi	ISO 178
Poissons Ratio	0.428	0.428	ISO 527
Izod Impact, Notched (ISO)	27.9 kJ/m ²	13.3 ft-lb/in ²	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact	2629	2629	Multi-axial in Newtons, at max. load; ASTM D3763
	@Thickness 102 mm	@Thickness 4.00 in	
Impact Test	12.1 J	8.92 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Thickness 102 mm	@Thickness 4.00 in	
	21.4 J	15.8 ft-lb	Multi-axial, at failure; ASTM D3763

Mechanical Properties	@Thickness 102 mm Metric	@Thickness 4.00 in English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	51.2 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 120 $^\circ\text{C}$	28.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 248 $^\circ\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	160 $^\circ\text{C}$	320 $^\circ\text{F}$	ISO 75
Descriptive Properties	Value		Comments
Color	Black		Internal

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China