

## Azdel Plus C467-B01 45% Chopped Fiber Mat / PP Resin Matrix (Mineral filled)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

AZDEL® C467-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-C467-B01-45-Chopped-Fiber-Mat-PP-Resin-Matrix-Mineral-filled.php](http://www.lookpolymers.com/polymer_Azdel-Plus-C467-B01-45-Chopped-Fiber-Mat-PP-Resin-Matrix-Mineral-filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	Laminate; ASTM D792
	1.30 g/cc	1.30 g/cc	Molded; ASTM D792
Filler Content	45 %	45 %	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	100 MPa	14500 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
Tensile Modulus	5.733 GPa	831.5 ksi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	6.21 GPa	901 ksi	ISO 178
Poissons Ratio	0.347	0.347	ISO 527
Izod Impact, Notched	3.34 J/cm	6.26 ft-lb/in	ISO 180
	@Thickness 4.00 mm, Temperature 23.0 °C	@Thickness 0.157 in, Temperature 73.4 °F	
Impact	263	263	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	

Mechanical Properties	29.0 J Metric	21.4 ft-lb English	Comments
	@Thickness 4.00 mm	@Thickness 0.157 in	, at failure, ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature -40.0 - 120 $^{\circ}\text{C}$	17.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature -40.0 - 248 $^{\circ}\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	ASTM D648
Flame Spread	0.00 mm/min	0.00 in/min	FMVSS302

Descriptive Properties	Value	Comments
Color	Black	Internal

## Contact Songhan Plastic Technology Co.,Ltd.

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