

## Azdel Plus R300-B01 30% Continuous Random Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

AZDEL® R300-B01 is a glass mat thermoplastic laminate based upon a random oriented continuous 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 applications where high stiffness and impact are 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-R300-B01-30-Continuous-Random-Fiber-Mat-PP-Resin-Matrix.php](http://www.lookpolymers.com/polymer_Azdel-Plus-R300-B01-30-Continuous-Random-Fiber-Mat-PP-Resin-Matrix.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Laminate; ASTM D792
	1.14 g/cc	1.14 g/cc	Molded; ASTM D792
Filler Content	30 %	30 %	By weight (ashing); Internal
Thickness	3900 microns	154 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	60.0 MPa	8700 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ISO 527
Tensile Modulus	4.30 GPa	624 ksi	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	4.40 GPa	638 ksi	ISO 178
Impact	3800	3800	Multi-axial in Newtons, at max. force; 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	
	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

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

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## Contact Songhan Plastic Technology Co.,Ltd.

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