

## Azdel Plus C300B04N 30% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

AZDEL® C300B04N is a chopped fiber material based on random oriented long chopped glass fiber mat (paper making process). This polypropylene composite material features high flow properties and a very homogeneous fiber distribution. This material is typically used for standard semi-structural, thin wall applications. Commercially available only to European based customers. Information provided by Azdel.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Azdel-Plus-C300B04N-30-Chopped-Fiber-Mat-PP-Resin-Matrix.php](http://www.lookpolymers.com/polymer_Azdel-Plus-C300B04N-30-Chopped-Fiber-Mat-PP-Resin-Matrix.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	Laminate; ISO 2577
	1.14 g/cc	1.14 g/cc	Molded plaque; ISO 2577
Filler Content	30 %	30 %	AZDEL Test
Thickness	3900 microns	154 mil	AZDEL Test
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527/4
Elongation at Break	2.6 %	2.6 %	ISO 527/4
Tensile Modulus	4.30 GPa	624 ksi	ISO 527/4
Flexural Strength	115 MPa	16700 psi	ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ISO 178
Charpy Impact, Notched	7.00 J/cm <sup>2</sup>	33.3 ft-lb/in <sup>2</sup>	ISO 179/2fn
Impact	4500	4500	Multi-axial in Newtons, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	15.0 J	11.1 ft-lb	Multi-axial, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
	40.0 J	29.5 ft-lb	Multi-axial, total energy; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear</i>	36.0 $\mu\text{m}/\text{m}\cdot\text{C}$ Metric	20.0 $\mu\text{in}/\text{in}\cdot\text{F}$ English	Comments 100 x 15 x 3 mm sample; AZDEL Test
	@Temperature 0.000 - 120 °C	@Temperature 32.0 - 248 °F	
	48.0 $\mu\text{m}/\text{m}\cdot\text{C}$	26.7 $\mu\text{in}/\text{in}\cdot\text{F}$	100 x 15 x 3 mm sample; AZDEL Test
	@Temperature -30.0 - 0.000 °C	@Temperature -22.0 - 32.0 °F	
Melting Point	115 °C	239 °F	Recrystallizing temperature; ISO 3146
	166 °C	331 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	ISO 75/2a

Processing Properties	Metric	English	Comments
Processing Temperature	205 - 220 °C	401 - 428 °F	Surface temperature
Mold Temperature	30.0 - 90.0 °C	86.0 - 194 °F	
Back Pressure	15.0 - 25.0 MPa	2180 - 3630 psi	Depending on wall thickness and part complexity

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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