

Azdel Plus U400-B01N 41.5% Directionalized Continuous Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® U400-B01N is a uni-directional fiber and random glass mat reinforced polypropylene composite material featuring excellent fiber distribution over long flow paths and complex part forms. This material allows highly directionalized reinforcement where loads are in defined planes. Typically it is combined with Azdel chopped and random mat to localized high stress paths, minimizing part weight and cost. For use in semi-structural applications and especially suited to adhesion bonded assemblies. 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-U400-B01N-415-Directionalized-Continuous-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ISO 1183
Filler Content	41.5 %	41.5 %	ISO 1172
Thickness	3200 microns	126 mil	AZDEL Test
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	flat plaques, 320 x 320 mm; ISO 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	measured on flat plaques, 320 x 320 mm; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	Transverse direction; ISO 527/4
	250 MPa	36300 psi	Longitudinal direction; ISO 527/4
Elongation at Break	2.0 %	2.0 %	Transverse direction; ISO 527/4
	2.3 %	2.3 %	Longitudinal direction; ISO 527/4
Tensile Modulus	5.80 GPa	841 ksi	Transverse direction; ISO 527/4
	9.30 GPa	1350 ksi	Longitudinal direction; ISO 527/4
Flexural Strength	130 MPa	18900 psi	Transverse direction; ISO 178
	250 MPa	36300 psi	Longitudinal direction; ISO 178
Flexural Modulus	5.50 GPa	798 ksi	Transverse direction; ISO 178
	8.00 GPa	1160 ksi	Longitudinal direction; ISO 178
Charpy Impact, Notched	6.50 J/cm ²	30.9 ft-lb/in ²	Transverse direction; ISO 179/2fn

Mechanical Properties	14.0 J/cm ² Metric	66.6 ft-lb/in ² English	Longitudinal direction; ISO 179/2fn Comments
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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