

Azdel Plus R301B01N 30% Continuous Random Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® R301B01N is a random oriented needled continuous glass fiber mat material. This polypropylene composite material features high properties and a basic homogeneous fiber distribution. This material is typically used for standard semi-structural 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-R301B01N-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; 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	0.0032 cm/cm	0.0032 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 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	130 MPa	18900 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Charpy Impact, Notched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/2fn
Impact	3800	3800	Multi-axial in Newtons, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	10.0 J	7.38 ft-lb	Multi-axial, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
	30.0 J	22.1 ft-lb	Multi-axial, total energy; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	

Thermal Properties	Metric	English	Comments
CTE, linear	33.0 µm/m-°C	18.3 µin/in-°F	100 x 15 x 3 mm sample; AZDEL Test

Thermal Properties	Metric @Temperature 0.000 - 120 °C	English @Temperature 32.0 - 248 °F	Comments
	43.0 µm/m-°C	23.9 µin/in-°F	100 x 15 x 3 mm sample; AZDEL Test
	@Temperature -30.0 - 0.000 °C	@Temperature -22.0 - 32.0 °F	
Melting Point	114 °C	237 °F	Recrystallizing temperature; ISO 3146
	166 °C	331 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °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

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