

Azdel Plus R401B02N 40% Continuous Random Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® R401B02N 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-R401B02N-40-Continuous-Random-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	Laminate; ISO 2577
	1.24 g/cc	1.24 g/cc	Molded plaque; ISO 2577
Filler Content	40 %	40 %	AZDEL Test
Thickness	3900 microns	154 mil	AZDEL Test
Linear Mold Shrinkage	0.0027 cm/cm	0.0027 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527/4
Elongation at Break	2.2 %	2.2 %	ISO 527/4
Tensile Modulus	5.60 GPa	812 ksi	ISO 527/4
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.70 GPa	827 ksi	ISO 178
Charpy Impact, Notched	8.50 J/cm ²	40.5 ft-lb/in ²	ISO 179/2fn
Impact	5500	5500	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	
	45.0 J	33.2 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	@Temperature 0.000 - Metric 120 °C	@Temperature 32.0 - English 249 °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)	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

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