

Azdel Plus C401B02N 40% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C401B02N 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-C401B02N-40-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	Laminate; ISO 2577
	1.22 g/cc	1.22 g/cc	Molded plaque; ISO 2577
Filler Content	40 %	40 %	AZDEL Test
Thickness	3900 microns	154 mil	AZDEL Test
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ISO 527/4
Elongation at Break	2.5 %	2.5 %	ISO 527/4
Tensile Modulus	5.50 GPa	798 ksi	ISO 527/4
Flexural Strength	150 MPa	21800 psi	ISO 178
Flexural Modulus	5.60 GPa	812 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	17.0 J	12.5 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
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Thermal Properties CTE, linear	29.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	16.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments 100 x 15 x 3 mm sample; AZDEL Test
	@Temperature 0.000 - 120 $^\circ\text{C}$	@Temperature 32.0 - 248 $^\circ\text{F}$	
	44.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	24.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature -30.0 - 0.000 $^\circ\text{C}$	@Temperature -22.0 - 32.0 $^\circ\text{F}$	100 x 15 x 3 mm sample; AZDEL Test
Melting Point	115 $^\circ\text{C}$	239 $^\circ\text{F}$	Recrystallizing temperature; ISO 3146
	155 $^\circ\text{C}$	311 $^\circ\text{F}$	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	160 $^\circ\text{C}$	320 $^\circ\text{F}$	ISO 75/2a

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

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