

Azdel Plus C200B01N 20% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C200B01 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-C200B01N-20-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	Laminate; ISO 2577
	1.06 g/cc	1.06 g/cc	Molded plaque; ISO 2577
Filler Content	20 %	20 %	AZDEL Test
Thickness	4400 microns	173 mil	AZDEL Test
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527/4
Elongation at Break	2.7 %	2.7 %	ISO 527/4
Tensile Modulus	3.30 GPa	479 ksi	ISO 527/4
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/2fn
Impact	4000	4000	Multi-axial in Newtons, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Impact Test	12.0 J	8.85 ft-lb	Multi-axial, at max. force; ISO 6603-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
	28.0 J	20.7 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	Metric 38.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	English 21.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Comments 100 x 15 x 3 mm sample; AZDEL Test
	@Temperature 0.000 - 120 $^{\circ}\text{C}$	@Temperature 32.0 - 248 $^{\circ}\text{F}$	
	52.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@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
	166 $^{\circ}\text{C}$	331 $^{\circ}\text{F}$	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	155 $^{\circ}\text{C}$	311 $^{\circ}\text{F}$	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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