

Azdel Plus C220B02N 22% Chopped Fiber Mat / PP Resin Matrix

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL® C220B02N 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-C220B02N-22-Chopped-Fiber-Mat-PP-Resin-Matrix.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	Laminate; ISO 2577
	1.07 g/cc	1.07 g/cc	Molded plaque; ISO 2577
Filler Content	22 %	22 %	AZDEL Test
Thickness	3900 microns	154 mil	AZDEL Test
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	320 x 320 mm flat plaque; ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527/4
Elongation at Break	2.7 %	2.7 %	ISO 527/4
Tensile Modulus	3.40 GPa	493 ksi	ISO 527/4
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	3.50 GPa	508 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
--------------------	--------	---------	----------

Thermal Properties <i>CTE, linear</i>	Metric	English	Comments
	38.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	21.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	100 x 15 x 3 mm sample; AZDEL Test
	@Temperature 0.000 - 120 °C	@Temperature 32.0 - 248 °F	
	52.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	28.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	100 x 15 x 3 mm sample; AZDEL Test
	@Temperature -30.0 - 0.000 °C	@Temperature -22.0 - 32.0 °F	
Melting Point	115 °C	239 °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

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