

AZDEL™ C220-B01

Polypropylene

Azdel, Inc.

Message:

AZDEL® C220-B01 is a glass mat thermoplastic laminate based upon random oriented chopped fiber mat contained within polypropylene resin matrix. This composite material features high flow properties and a very homogeneous fiber distribution. This material is typically used for standard semi-structural thin wall applications and where good glass distribution into features such as ribs and bosses is desired.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 22% filler by weight		
Features	High liquidity		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	MPa	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Flexural Modulus	3500	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy to Peak Load	12.1	J	ASTM D3763
4.00 mm, Total Energy	28.1	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	155	°C	ASTM D648
Additional Information			

Filler Content by Weight (Ashing), Internal Test Method: 22%Specific Gravity, ASTM D792, Laminate: 1.04Specific Gravity, ASTM D792, Molded: 1.07Sheet Thickness, Internal Test Method: 142 milsBasis Weight (Mass per unit area), Internal Test Method: 0.78 lbs/ft²Instrumented Dart Impact Peak Force, ASTM D3763, 4.0 mm: 899 lb

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Recommended distributors for this material

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