

# AZDEL™ C321-B01

Polypropylene

Azdel, Inc.

## Message:

AZDEL® C321-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			
UL YellowCard	E110815-218954		
Filler / Reinforcement	Glass fiber reinforced material, 32% filler by weight		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4620	MPa	ISO 527-2
Tensile Stress (Yield)	76.0	MPa	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Flexural Modulus	4570	MPa	ISO 178
Flexural Stress	104	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy to Peak Load	8.95	J	ASTM D3763
4.00 mm, Total Energy	13.3	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	151	°C	ASTM D648
CLTE - Flow (-40 to 121°C)	3.6E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate	5.1	mm/min	ISO 3795
Additional Information			

Filler Content by Weight (Ashing), Internal Test Method: 32%Specific Gravity, ASTM D792, Laminate: 1.12Specific Gravity, ASTM D792, Molded: 1.14Sheet Thickness, Internal Test Method: 142 milsBasis Weight (Mass per unit area), Internal Test Method: 0.82 lbs/ft<sup>2</sup>Instrumented Dart Impact Peak Force, ASTM D3763, 4.0 mm: 480 lbPoisson's Ratio, ISO 527: 0.317Notched Izod Impact Strength, ISO 180, 23°C: 560 J/m

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Recommended distributors for this material

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