

AZDEL™ C401-B01

Polypropylene

Azdel, Inc.

Message:

AZDEL C401-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, 40% filler by weight		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5970	MPa	ISO 527-2
Tensile Stress (Yield)	106	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	5520	MPa	ISO 178
Flexural Stress	146	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy at Peak Load	10.0	J	ASTM D3763
4.00 mm, Total Energy	18.8	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Burning Rate	4.6	mm/min	ISO 3795
Additional Information			

Basis Weight, Internal Test Method: 0.9 lbs/ft²Filler Content by Weight(ashing), Internal Test Method: 40 %Multi-axial Impact Peak Force, ASTM D3763, 4mm: 558 lbsNotched Izod Impact, ISO 180, 23°C, 4mm: 469 J/mPoissons Ratio, ISO 527: 0.333Sheet Thickness, Internal Test Method: 142 milsSpecific Gravity, ASTM D792, Laminated: 1.17Specific Gravity, ASTM D792, Molded: 1.19

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Recommended distributors for this material

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