

AZDEL™ C507-B01

Polypropylene

Azdel, Inc.

Message:

AZDEL C507-B01 is a glass mat thermoplastic laminate based upon random oriented chopped fiber mat and mineral filler contained within polypropylene resin matrix. This composite material features high flow properties and a very homogeneous fiber distribution and exhibits low part warpage after molding. 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, 50% filler by weight Mineral filler		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Yield)	144	MPa	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Flexural Modulus	6700	MPa	ISO 178
Flexural Stress	168	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	35	kJ/m ²	ISO 180
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy at Peak Load	16.9	J	ASTM D3763
4.00 mm, Total Energy	31.0	J	ASTM D3763

Additional Information

Basis Weight, Internal Test Method: 1.12 lbs/ft²Filler Content by Weight(ashing), Internal Test Method: 50 %Multi-axial Impact Peak Force, ASTM D3763, 4mm: 945 lbsNotched Izod Impact, ISO 180, 23°C, 4mm: 35.3 kJ/m² J/mPoissons Ratio, ISO 527: 0.234Sheet Thickness, Internal Test Method: 165 milsSpecific Gravity, ASTM D792, Laminated: 1.29Specific Gravity, ASTM D792, Molded: 1.31

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Recommended distributors for this material

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