

AZDEL™ PM10300

Polypropylene

Azdel, Inc.

Message:

AZDEL PM10300 is a glass mat thermoplastic laminate based upon a combination of random oriented continuous fiber mat contained within polypropylene resin matrix. This composite material features high flow properties and a generally homogeneous fiber distribution. This material is typically used for standard semi-structural applications where high stiffness and impact are desired.

General Information			
Filler / Reinforcement	Long glass fiber, 30% filler by weight		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4790	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	5070	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Compressive Strength	96.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy at Peak Load	9.49	J	ASTM D3763
4.00 mm, Total Energy	20.3	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	154	°C	ASTM D648
CLTE - Flow (-40 to 121°C)	2.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate	11	mm/min	ISO 3795
Additional Information			

Basis Weight, Internal Test Method: 0.85 lbs/ft²Filler Content by Weight(ashing), Internal Test Method: 30 %Multi-axial Impact Peak Force, ASTM D3763, 4mm: 550 lbsNotched Izod Impact, ISO 180, 23°C, 4mm: 616 J/mPoissons Ratio, ISO 527: 0.238Sheet Thickness, Internal Test Method: 150 milsSpecific Gravity, ASTM D792, Laminated: 1.09Specific Gravity, ASTM D792, Molded: 1.12

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Recommended distributors for this material

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