AZDEL™ PM10402

Polypropylene

Azdel, Inc.

Message:

AZDEL PM10402 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 and is UV stabilized. This material is typically used for standard semi-structural applications where high stiffness, impact, and UV resistance are desired.

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Appearance	Black		
Forms	Sheet		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5870	MPa	ISO 527-2
Tensile Stress (Yield)	97.0	MPa	ISO 527-2
Tensile Strain (Break)	2.1	%	ISO 527-2
Flexural Modulus	5520	MPa	ISO 178
Flexural Stress	135	MPa	ISO 178
Compressive Strength	138	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy at Peak Load	16.3	J	ASTM D3763
4.00 mm, Total Energy	21.7	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

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: 750 lbsNotched Izod Impact, ISO 180, 23°C, 4mm: 750 J/mPoissons Ratio, ISO 527: 0.37Sheet Thickness, Internal Test Method: 146 milsSpecific Gravity, ASTM D792, Laminated: 1.18Specific Gravity, ASTM D792, Molded: 1.21

Recommended distributors for this material

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