

AZDEL™ R401-B01

Polypropylene

Azdel, Inc.

Message:

AZDEL R401-B01 is a glass mat thermoplastic laminate based upon random oriented continuous 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 applications and where high impact and stiffness 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	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6160	MPa	ISO 527-2
Tensile Stress (Yield)	108	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	6150	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact			ASTM D3763
4.00 mm, Energy at Peak Load	15.0	J	ASTM D3763
4.00 mm, Total Energy	28.1	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)	4.3E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate	2.8	mm/min	ISO 3795
Additional Information			
Basis Weight, Internal Test Method: 0.9 lbs/ft ² Filler Content by Weight(ashing), Internal Test Method: 40 %Multi-axial Impact Peak Force, ASTM D3763, 4mm: 845 lbsNotched Izod Impact, ISO 180, 23°C, 4mm: 810 J/mPoissons Ratio, ISO 527: 0.361Sheet Thickness, Internal Test Method: 145 milsSpecific Gravity, ASTM D792, Laminated: 1.19Specific Gravity, ASTM D792, Molded: 1.21			

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Recommended distributors for this material

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