

AZDEL™ SM10400

Polypropylene

Azdel, Inc.

Message:

AZDEL SM10400 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, and is usually used in sheet form (un-molded) in applications such as large-truck trailer scuff liners.

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5030	MPa	ISO 527-2
Tensile Stress (Yield)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	5310	MPa	ISO 178
Flexural Stress	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Instrumented Dart Impact (4.00 mm, Total Energy)	28.5	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	5.1	mm/min	ISO 3795
Additional Information			

Basis Weight, Internal Test Method: 0.9 lbs/ft²Filler Content by Weight(ashing), Internal Test Method: 40 %Notched Izod Impact, ISO 180, 23°C, 4mm: 750 J/mSheet Thickness, Internal Test Method: 146 milsSpecific Gravity, ASTM D792, Laminated: 1.21

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

