

AZDEL™ R401B02N

Polypropylene Alloy

Azdel, Inc.

Message:

Azdel® R401B02N is a random oriented needled continuos glass fibre mat material. This polypropylene composite material features high properties and homogeneous fibre distribution. This material is typically used for standard semi-structural applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Uses	Laminate		
Forms	Sheet		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage	0.27	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5600	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Break)	2.2	%	ISO 527-2
Flexural Modulus	5700	MPa	ISO 178
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	85	kJ/m ²	ISO 179/2fnU
Multi-Axial Instrumented Impact Energy			ISO 6603-2
4.00, energy to power peak	15.0	J	ISO 6603-2
4.00, total impact penetration energy	45.0	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force (4.00 mm)	5500	N	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	158	°C	ISO 75-2/A
Melting Temperature (DSC)	166	°C	ISO 3146
Additional Information			

Mass Per Unit Area, Azdel Test Method: 4.680 kg/m²Thickness, Azdel Test Method: 3.9 mmDensity, ISO 1183 Test Method: 1.20 g/cm³Density, ISO 1183 Test Method, Molded Plaque: 1.24 g/cm³Recrystallizing Temperature, ISO 3146 Test Method: 114 °CCTLE, Azdel Test Method, -30°C to 0°C, 3mm: 4.3e-5 1/°CCTLE, Azdel Test Method, 0°C to 120°C, 3mm: 3.3e-5 1/°CBlank Heat Parameters-Internal Temperature: 190 to 215°C-Surface Temperature: 205 to 220°C-Typical Heating Time for IR-System: 180 to 240°C-Typical Heating Time for Hot Air System: 240 to 480°C-Mould Temperature: 30 to 90°C-Moulding Preasure: 150 to 250 barMinimum Pressing Speed: 20 mm/secTotal Cycle Time: 30 to 90 sec

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