

# AZDEL™ R301B01N

Polypropylene Alloy

Azdel, Inc.

## Message:

Azdel® R301B01N 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, 30% filler by weight |       |              |
| Uses                                                 | Laminate                                              |       |              |
| Forms                                                | Sheet                                                 |       |              |
| Processing Method                                    | Compression molding                                   |       |              |
| Physical                                             | Nominal Value                                         | Unit  | Test Method  |
| Density                                              | 1.14                                                  | g/cm³ | ISO 1183     |
| Molding Shrinkage                                    | 0.32                                                  | %     | ISO 294-4    |
| Mechanical                                           | Nominal Value                                         | Unit  | Test Method  |
| Tensile Modulus                                      | 4300                                                  | MPa   | ISO 527-2    |
| Tensile Stress (Yield)                               | 80.0                                                  | MPa   | ISO 527-2    |
| Tensile Strain (Break)                               | 2.6                                                   | %     | ISO 527-2    |
| Flexural Modulus                                     | 4500                                                  | MPa   | ISO 178      |
| Flexural Stress                                      | 130                                                   | MPa   | ISO 178      |
| Impact                                               | Nominal Value                                         | Unit  | Test Method  |
| Charpy Unnotched Impact Strength                     | 70                                                    | kJ/m² | ISO 179/2fnU |
| Multi-Axial Instrumented Impact Energy               |                                                       |       | ISO 6603-2   |
| 4.00, energy to power peak                           | 10.0                                                  | J     | ISO 6603-2   |
| 4.00, total impact penetration energy                | 30.0                                                  | J     | ISO 6603-2   |
| Multi-Axial Instrumented Impact Peak Force (4.00 mm) | 3800                                                  | N     | ISO 6603-2   |
| Thermal                                              | Nominal Value                                         | Unit  | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed)    | 155                                                   | °C    | ISO 75-2/A   |
| Melting Temperature (DSC)                            | 166                                                   | °C    | ISO 3146     |
| Additional Information                               |                                                       |       |              |

Mass Per Unit Area, Azdel Test Method: 4.300 kg/m²Thickness, Azdel Test Method: 3.9 mmDensity, ISO 1183 Test Method: 1.10 g/cm³Density, ISO 1183 Test Method, Molded Plaque: 1.14 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 Pressure: 150 to 250 barMinimum Pressing Speed: 20 mm/secTotal Cycle Time: 30 to 90 sec

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