

SuperLite® SL550700-100 (1.5mm)

Polypropylene

Azdel, Inc.

Message:

AZDEL SuperLite SL550700-100 (1.5mm) is a low pressure, thermoformable, thermoplastic composite of polypropylene and long chopped glass fibers. Usually combined with outer layers as needed for the application (i.e.; adhesive films, barrier films, scrim, tough PP films, non-wovens, reinforcements or just the bare surface.) Typically used in non-structural applications where a very high strength to weight ratio is required, such as automotive headliners, door panels, package shelves, and other interior trim.

| General Information | | | |
|---------------------------|--|-------------------|-------------|
| Filler / Reinforcement | Long glass fiber, 55% filler by weight | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Sheet | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.559 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | < 0.020 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3800 | MPa | ASTM D638 |
| Tensile Strength | 35.0 | MPa | ASTM D638 |
| Impact | Nominal Value | Unit | Test Method |
| Instrumented Dart Impact | | | ASTM D3763 |
| 23°C, Energy at Peak Load | 1.60 | J | ASTM D3763 |
| 23°C, Total Energy | 3.70 | J | ASTM D3763 |
| Additional Information | | | |

Multi-axial Impact Peak Force, ASTM D3763, 23°C: 500 NMass per unit area, Internal Test Method: 700 g/m²Flexual Strength, SAE J949: 5 MPaFlexual Modulus, SAE J949: 1500 MPa

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