

# SuperLite® SL551800-100 (4.0mm)

Polypropylene

Azdel, Inc.

## Message:

AZDEL SuperLite SL551800-100 (4.0mm) 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          | 0.489                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow  | < 0.020                                | %                 | ASTM D955   |
| Mechanical                | Nominal Value                          | Unit              | Test Method |
| Tensile Modulus           | 3600                                   | MPa               | ASTM D638   |
| Tensile Strength          | 34.0                                   | MPa               | ASTM D638   |
| Impact                    | Nominal Value                          | Unit              | Test Method |
| Instrumented Dart Impact  |  |                   | ASTM D3763  |
| 23°C, Energy at Peak Load | 5.80                                   | J                 | ASTM D3763  |
| 23°C, Total Energy        | 10.9                                   | J                 | ASTM D3763  |

| Additional Information   |  |  |  |
|--|--|--|--|
| Multi-axial Impact Peak Force, ASTM D3763, 23°C: 1500 NMass per unit area, Internal Test Method: 1800 g/m <sup>2</sup> Flexual Strength, SAE J949: 20 MPaFlexual Modulus, SAE J949: 1750 MPa |  |  |  |

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