

Azdel SuperLite® SL551600-100 PP Resin Matrix / 55% Glass Fiber (5 mm Molded Thickness)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL SuperLite® SL551600-100 is a low pressure, thermoformable, thermoplastic composite of polypropylene and long chopped glass fibers. Usually combined with outer layers as needed for the applications. Typically used in non-structural applications where a very high strength to weight ratio is required, such as:Automotive headlinersDoor panelsPackage shelvesOther interior trimPhysical properties apply only to bare SuperLite sheet and do not include surface films or scrim. Mechanical properties measured on flat plaques.Draw ratio is defined as the ratio of the maximum depth of the mold to the minimum distance across the open face of the mold at any given location and is measured on flat plaques.Information provided by Azdel.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Azdel-SuperLite-SL551600-100-PP-Resin-Matrix-55-Glass-Fiber-5-mm-Molded-Thickness.php

| Physical Properties | Metric | English | Comments |
|-----------------------|----------------------|------------------|---|
| Specific Gravity | 0.350 g/cc | 0.350 g/cc | ASTM D3574 |
| Filler Content | 55 % | 55 % | ASTM D5630 |
| Thickness | 9500 - 10000 microns | 374 - 394 mil | Typical free lofted thickness after heating |
| Linear Mold Shrinkage | <= 0.00020 cm/cm | <= 0.00020 in/in | Typical, molds cut to zero |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------------------|----------------------|---|
| Tensile Strength at Break | 17.0 MPa | 2470 psi | ASTM D638 |
| Tensile Modulus | 1.90 GPa | 276 ksi | ASTM D638 |
| Flexural Strength | 9.00 MPa | 1310 psi | SAE J949 |
| Flexural Modulus | 1.10 GPa | 160 ksi | SAE J949 |
| Impact | 1100 | 1100 | Multi-axial in Newtons, at 23°C, at max. load, measured on flat plaques; ASTM D3763 |
| Impact Test | 4.40 J | 3.25 ft-lb | Multi-axial, at max. load; ASTM D3763 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 9.80 J | 7.23 ft-lb | Multi-axial, at failure, measured on flat plaques; ASTM D3763 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|----------------------|----------|
| Available Colors | Natural and Charcoal | |

| Draw Ratio Descriptive Properties | Max 1.5:1 Value | Comments |
|--------------------------------------|--------------------|----------|
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