

Azdel SuperLite® SL551000-100 PP Resin Matrix / 55% Glass Fiber (4.5 mm Molded Thickness)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL SuperLite® SL551000-100 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 headliners Door panels Package shelves Other interior trim Physical 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-SL551000-100-PP-Resin-Matrix-55-Glass-Fiber-45-mm-Molded-Thickness.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.250 g/cc	0.250 g/cc	ASTM D3574
Filler Content	55 %	55 %	ASTM D5630
Thickness	6000 - 6500 microns	236 - 256 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	12.0 MPa	1740 psi	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	ASTM D638
Flexural Strength	6.00 MPa	870 psi	SAE J949
Flexural Modulus	0.800 GPa	116 ksi	SAE J949
Impact	760	760	Multi-axial in Newtons, at 23°C, at max. load, measured on flat plaques; ASTM D3763
Impact Test	3.50 J	2.58 ft-lb	Multi-axial, at max. load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.20 J	5.31 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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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China