Azdel SuperLite® SL551200-100 PP Resin Matrix / 55% Glass Fiber (7 mm Molded Thickness)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

AZDEL SuperLite® SL551200-100 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-SL551200-100-PP-Resin-Matrix-55-Glass-Fiber-7-mm-Molded-Thickness.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.190 g/cc	0.190 g/cc	ASTM D3574
Filler Content	55 %	55 %	ASTM D5630
Thickness	7200 - 7700 microns	283 - 303 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	7.00 MPa	1020 psi	ASTM D638
Tensile Modulus	0.650 GPa	94.3 ksi	ASTM D638
Flexural Strength	3.00 MPa	435 psi	SAE J949
Flexural Modulus	0.430 GPa	62.4 ksi	SAE J949
Impact	1000	1000	Multi-axial in Newtons, at 23°C, at max. load, measured on flat plaques; ASTM D3763
Impact Test	6.60 J @Temperature 23.0 °C	4.87 ft-lb @Temperature 73.4 °F	Multi-axial, at max. load; ASTM D3763
	10.7 J @Temperature 23.0 °C	7.89 ft-lb @Temperature 73.4 °F	Multi-axial, at failure, measured on flat plaques; ASTM D3763

Descriptive Properties	Value	Comments
Available Colors	Natural and Charcoal	

Descriptive Properties	Value	Comments
Draw Ratio	Max 1.5:1	

Contact Songhan Plastic Technology Co.,Ltd.

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