

# L-530

## Solution Coated Epoxy Prepreg



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### Product Data Sheet

#### Description

L-530 is a solution coated epoxy prepreg which has been modified to increased flame resistance, and is available on fiberglass fabrics such as 7781 or other styles as requested.

#### Advantages of L-530

- ❖ Formulated to provide both superior laminating properties and flame resistance.
- ❖ Can be used for sandwich panels without adhesive film because of outstanding peel strength on most core materials.
- ❖ Meets the challenge of impact damage while forming a sturdy base for decorative Tedlar facings.

#### Physical Properties on 7781 Glass Fabric

- *Standard Weight:* 0.100 lbs/ft<sup>2</sup> (488 g/m<sup>2</sup>)
- *Standard Resin Content:* 38% by weight
- *Volatile Content:* 2% by weight
- *Standard Tack:* Medium
- *Cured Ply Thickness:* 0.010" (0.254 mm)

#### Flammability

- *Self Extinguishing per FAR part 25.853*

#### Availability

- *Up to 60" width in rolls up to 100 yards long (152 cm x 91 m)*

#### Shelf Life

- *6 months at 40°F (4°C) or below*
- *21 days at Room Temperature (70°F or 21°C)*

#### Cure Cycle

- *60 minutes at 250-275°F (121-135°C)*

## Sandwich Properties\*

Core: Aramid Phenolic, 3 lbs/ft<sup>3</sup>, 1/8" cell (16 kg/m<sup>3</sup>, 3.175 mm)

Facings: 1 ply L-530-7781 each side

- *RT Flatwise Tensile Strength:* Core Failure
- *RT Sandwich Peel Strength:* 15 in lb/in (67 N/25 mm)

- ❖ \*Sandwich peel strength varies with orientation of fibers directly against the core and test direction.
- ❖ Fibers laid up parallel with the test direction produce minimum strengths.
- ❖ Fibers laid up perpendicular to the test direction produce maximum strengths.

## Mechanical Data

Property	Vacuum Pressure	Test Method
<b>Ultimate Tensile Strength</b>		
Room Temperature (RT)	61 KSI (421 MPa)	ASTM D638
160°F (71°C)	45 KSI (310 MPa)	ASTM D638
RT after 1 Hour Water Boil	57 KSI (393 MPa)	ASTM D638
<b>Tensile Modulus</b>		
Room Temperature (RT)	3.5 MSI (24 GPa)	ASTM D638
160°F (71°C)	3.5 MSI (24 GPa)	ASTM D638
RT (Wet)	3.5 MSI (24 GPa)	ASTM D638
<b>Ultimate Compression Strength</b>		
Room Temperature (RT)	68 KSI (469 MPa)	ASTM D695
RT after 1 Hour Water Boil	56 KSI (386 MPa)	ASTM D695
<b>Compression Modulus</b>		
Room Temperature (RT)	3.5 MSI (24 GPa)	ASTM D695
RT (Wet)	3.4 MSI (23 GPa)	ASTM D695
<b>Ultimate Flexural Strength</b>		
Room Temperature (RT)	96 KSI (662 MPa)	ASTM D790
160°F (71°C) after 30 Minute Soak @ 160°F	74 KSI (510 MPa)	ASTM D790
RT after 1 Hour Water Boil	80 KSI (552 MPa)	ASTM D790
RT after 30 day Hydraulic Fluid Soak	78 KSI (538 MPa)	ASTM D790
RT after 30 day JP-4 Fuel Soak	78 KSI (538 MPa)	ASTM D790
<b>Flexural Modulus</b>		
Room Temperature (RT)	3.6 MSI (25 GPa)	ASTM D790
160°F (71°C)	3.5 MSI (24 GPa)	ASTM D790

### NOTICE:

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