L-530

Solution Coated Epoxy Prepreg

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Product Data Sheet

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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/ft² (488 g/m^2)*
- *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^3, 1/8" cell (16 kg/m^3, 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
Ultimate Tensile Strength		
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
Tensile Modulus		
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
Ultimate Compression Strength		
Room Temperature (RT)	68 KSI (469 MPa)	ASTM D695
RT after 1 Hour Water Boil	56 KSI (386 MPa)	ASTM D695
Compression Modulus		
Room Temperature (RT)	3.5 MSI (24 GPa)	ASTM D695
RT (Wet)	3.4 MSI (23 GPa)	ASTM D695
Ultimate Flexural Strength		
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
Flexural Modulus		
Room Temperature (RT)	3.6 MSI (25 GPa)	ASTM D790
160°F (71°C)	3.5 MSI (24 GPa)	ASTM D790

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