

L-925

Woven Phenolic Prepreg



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Product Data Sheet

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Description

L-925 is a 275°F (135°C) curing phenolic prepreg with excellent fire smoke and toxicity properties. L-925 is available on 3K carbon plain weave or other styles of fabric as requested. L-925 is intended to be used as a single ply or multiple ply skin for aramid/phenolic honeycomb or aluminum honeycomb sandwich panels.

Advantages of L-925

- ❖ When used with L-310 phenolic adhesive film, L-925 prepreg facings create sandwich panels with high peel strength and high toughness.
- ❖ Processing of L-925 can be easily adapted to most heated presses or autoclaves.
- ❖ L-925 is also an excellent laminating prepreg when heat resistance is a requirement.
- ❖ When tested per the FAA required OSU test or vertical burns, L-925 will allow the designer to create structure which will meet or exceed these stringent requirements.

Physical Properties on 3K Carbon Plain Weave

- *Standard Weight:* 0.075 lbs/ft² (366 g/m²)
- *Standard Resin Content:* 45% by weight
- *Volatile Content:* 4-6%
- *Standard Tack:* Low tack
- *Cured Ply Thickness:* 0.008" (0.203 mm)
- *Other Weights, Resin Contents, and Fabrics are Available.*

Availability

- *Standard: 50" wide x 60 yards long (127 cm x 55 m), or*
- *Up to 60" width in rolls up to 100 yards long (152 cm 91 m)*

Shelf Life

- *6 months at 40°F (4°C) or below*
- *14 days at room temperature (70°F or 21°C)*

Cure Cycles

- *60 minutes at 275°F (135°C), or*
- *120 minutes at 260°F (127°C).*



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Flammability

- *Self Extinguishing per FAR part 25.853*

Sandwich Properties*

Core: 1/8" – 3.0 lbs/ft³ (3.175 mm – 48 kg/m³) Aramid/Phenolic

Adhesive: 1 ply L-310 each side

Facings: 2 plies L-925-100 (3K carbon plain weave) each side

- *RT Flatwise Tensile Strength: 240 PSI (1.7 MPa)*
- *RT Sandwich Peel Strength: 9 in lb/in (40 Nm/m)*

❖ L-925-100 sandwich peel strength ranges from 7-13 in lb/in (31-58 Nm/m).

Mechanical Data

PROPERTY	LAMINATE PROPERTIES	
	45 PSI (0.31 MPa) CURE	TEST METHOD
ULTIMATE TENSILE STRENGTH		
Room Temperature (RT)	89 KSI (614 MPa)	ASTM D638
160°F (71°C)	87 KSI (600 MPa)	ASTM D638
RT(WET)	82 KSI (566 MPa)	ASTM D638
TENSILE MODULUS		
Room Temperature (RT)	9.9 MSI (68 GPa)	ASTM D638
160°F (71°C)	9.1 MSI (63 GPa)	ASTM D638
RT(WET)	9.6 MSI (66 GPa)	ASTM D638
ULTIMATE COMPRESSION STRENGTH		
Room Temperature (RT)	71 KSI (490 MPa)	ASTM D695
160°F (71°C)	61 KSI (421 MPa)	ASTM D695
RT(WET)	56 KSI (386 MPa)	ASTM D695
COMPRESSION MODULUS		
Room Temperature (RT)	8.5 MSI (59 GPa)	ASTM D695
160°F (71°C)	8.4 MSI (58 GPa)	ASTM D695
RT(WET)	8.4 MSI (58 GPa)	ASTM D695
ULTIMATE FLEXURAL STRENGTH		
Room Temperature (RT)	124 KSI (855 MPa)	ASTM D790
160°F (71°C)	121 KSI (834 MPa)	ASTM D790
FLEXURAL MODULUS		
Room Temperature (RT)	9.2 MSI (63 GPa)	ASTM D790
160°F (71°C)	9.0 MSI (62 GPa)	ASTM D790

NOTICE:

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