L-726

Woven Prepreg, Aramid Phenolic

JD Lincoln
umeco composites

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Product Data Sheet

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Description

L-726 is a 275°F (135°C) curing phenolic prepreg with excellent fire, smoke, and toxicity properties. L-726 is available on 281 style aramid fabric or other styles of fabric as requested. L-726 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-726

- When used with L-310 phenolic adhesive film, L-726 prepreg facings create sandwich panels with high peel strength and high toughness.
- Processing of L-726 can be easily adapted to most heated presses or autoclaves.
- L-726 is also an excellent laminating prepreg when heat resistance is a requirement.
- Structure requiring ultra light weight and durability are candidates for the L-726 product.

Physical Properties on 281 Style Aramid Fabric

- *Standard Weight:* *0.070 lbs/ft² (342 g/m^2)*
- *Standard Resin Content:* *50% by weight*
- *Volatile Content:* *2-6%*
- *Standard Tack:* *Low tack*
- *Cured Ply Thickness:* *0.009" (0.23 mm)*
- *Other Weights, Resin Contents, and Fabrics are Available.*

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*
- *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).*

Flammability

- *Self Extinguishing per FAR part 25.853*

Sandwich Properties*

Core: ¼" cell x 0.004" (6.35 mm cell x 0.10 mm) Aluminum Foil

Adhesive: 1 ply L-310 each side

Facings: 2 plies L-726-281 each side

- *RT Flatwise Tensile Strength: 890 PSI (6.1 MPa)*
- *RT Sandwich Peel Strength: 9 in lb/in (40 Nm/m)*

*Sandwich peel strength varies with the 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.
- ❖ L-726-281 sandwich peel strength ranges from 7-13 in lb/in (31-58 Nm/m).

Mechanical Data

	LAMINATE PROPERTIES	
PROPERTY	**25 PSI CURE**	**TEST METHOD**
ULTIMATE TENSILE STRENGTH		
Room Temperature (RT)	56 KSI (386 MPa)	ASTM D638
160°F (71°C)	49 KSI (338 MPa)	ASTM D638
500°F (260°C) after 30 min soak at 500°F	43 KSI (296 MPa)	ASTM D638
TENSILE MODULUS		
Room Temperature (RT)	3.3 MSI (23 GPa)	ASTM D638
160°F (71°C)	3.3 MSI (23 GPa)	ASTM D638
RT(WET)	3.2 MSI (22 GPa)	ASTM D638
ULTIMATE COMPRESSION STRENGTH		
Room Temperature (RT)	21 KSI (145 MPa)	ASTM D695
160°F (71°C)	20 KSI (138 MPa)	ASTM D695
500°F (260°C) after 30 min soak at 500°F	19 KSI (130 MPa)	ASTM D695
COMPRESSION MODULUS		
Room Temperature (RT)	3.0 MSI (21 GPa)	ASTM D695
160°F (71°C)	3.0 MSI (21 GPa)	ASTM D695
RT(WET)	2.9 MSI (20 GPa)	ASTM D695
ULTIMATE FLEXURAL STRENGTH		
Room Temperature (RT)	54 KSI (372 MPa)	ASTM D790
FLEXURAL MODULUS		
Room Temperature (RT)	3.1 MSI (21 GPa)	ASTM D790
160°F (71°C)	-	ASTM D790

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