

L-725

Woven Prepreg, Aramid Phenolic



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Product Data Sheet

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Description

L-725 is a 275°F (135°C) curing phenolic prepreg with excellent fire smoke and toxicity properties. L-725 is available on 281 style aramid fabric or other styles of fabric as requested. L-725 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-725

- ❖ When used with L-310 phenolic adhesive film, L-725 prepreg facings create sandwich panels with high peel strength and high toughness.
- ❖ Processing of L-725 can be easily adapted to most heated presses or autoclaves.
- ❖ L-725 is also an excellent laminating prepreg when heat resistance is a requirement.
- ❖ Structure requiring ultra light weight and durability are candidates for the L-725 product.

Physical Properties on 281 Style Aramid Fabric

- *Standard Weight:* 0.070 lbs/ft² (341 g/m²)
- *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-725-281 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 the fibers directly against the core and the 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-725-281 sandwich peel strength ranges from 7-13 in lb/in (31-58 N/25 mm).

NOTICE:

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