

L-752

Laminating Prepreg, High Temperature



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Product Data Sheet

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Description

L-752 is an excellent high temperature modified epoxy prepreg which exhibits outstanding performance at temperatures up to 400°F (204°C). L-752 is ideally suited for applications on light weight advanced aircraft for fairings, inlet ducting, leading edges, control surfaces, pylons, and radomes.

Advantages of L-752

- ❖ L-752 has an excellent balance between toughness, high temperature strength and weatherability.
- ❖ L-752 may be co-cured with many of today's graphite/epoxy prepreg systems to form load transfer interfaces.
- ❖ L-752 is also supplied on light weight aramid fabric for use as a surfacing ply for graphite/epoxy laminates and facesheets to improve their damage tolerance.

Physical Properties on 281 Style Aramid Fabric

- *Standard Weight:* 0.070 lbs/ft² (342 g/m²)
- *Standard Resin Content:* 50% by weight
- *Volatile Content:* Less than 0.5%
- *Standard Tack:* Slightly tacky on one side
- *Cured Ply Thickness:* 0.010" (0.254 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*
- *30 days at Room Temperature (70°F or 21°C)*

Cure Cycles

- 60 minutes at 350°F (177°C)

Optional Cure Cycles:

- 2 hours at 300°F (149°C), or
 - 90 minutes at 325°F (163°C).
- ❖ L-752 may be bonded into various structures using L-313 high temperature adhesive and L-309 adhesive primer.
- ❖ 350°F (177°C) flatwise tension values against 1/8" (0.3175 cm) cell aluminum honeycomb exceed 950 PSI (6.6 MPa) using the L-313 adhesive for the L-752 facesheet to core bond.

CAUTION: Do not build any section of L-752 over 0.250" (0.635 cm) thick. Please contact the J.D. Lincoln, Inc. company for special curing requirements for parts thicker than 0.250" (0.635 cm).

NOTICE:

Product data and parameters cited in this publication have been obtained in J.D. Lincoln, Inc. laboratories using the materials under carefully controlled conditions. The information, therefore, is believed to be accurate and correctly stated. Data of this type may be considered to be indicative of representative properties obtainable. J.D. Lincoln, Inc. cannot accept responsibility for the misapplication of these products, nor for their use under uncontrolled conditions. Numerical values resulting from the application of this material are dependant on processing details. It is recommended that the user develop his or her own application techniques and generate data consistent with his or her specific application and process.