

L-705

Impact Resistant Aramid Prepreg



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Product Data Sheet

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Description

Designers use L-705 to create laminates capable of withstanding ballistic threats. L-705 is available in a variety of fabric styles to match the engineering requirements for a particular application. The cure cycle for L-705 allows easy processing in a press, oven, or autoclave.

Advantages of L-705

- ❖ L-705 can be used in a stand alone configuration or can be combined with various other engineered materials to create effective ballistic protection from many different threats.
- ❖ L-705 is comparable with L-314 adhesive film for bonding to ceramic or steel layers used to prevent penetration of high velocity rounds.

Physical Properties on 745K

This prepreg material is dry to the touch and has resin applied to one side only.

- *Standard Weight:* 0.115 lbs/ft² (562 g/m²)
- *Standard Resin Content:* 15%
- *Color:* Reddish Brown
- *Tack:* Dry to touch
- *A variety of fabrics, weights, and resin contents are available*

Availability

- *Standard Width Rolls:* 38", 50", and 60" (97 cm, 127 cm, and 152 cm)
- *Standard Roll Lengths:* 100 yards (91 m)

Shelf Life

- *6 months at 40°F (4°C) or below*
- *6 weeks at Room Temperature (70°F or 21°C)*

Cure Cycles

- *90-120 minutes at 250°F (121°C), or*
- *60-90 minutes at 275°F (135°C).*

Flammability

- ❖ The cured structure is flame retardant.

Ballistic Testing

- ❖ The designer and fabricator of the structure shall be responsible for testing each laminate configuration to verify conformance to the ballistic requirements.
- ❖ J.D. Lincoln, Inc. does not imply or represent by the above statements that any ballistic threat may be met with any particular construction.

NOTICE:

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