

L-212

Carbon Fiberply Prepreg



851 W. 18th Street
Costa Mesa, CA 92627
(949) 650-8106 Fax:(949) 631-6190
www.jdlincoln.com

Revised: 12/20/06

Product Data Sheet

Description

Fiberply L-212 is a unidirectional cross-plyed carbon fiber prepreg with an epoxy resin matrix. The L-212 system has adhesive film for core side bonding and a fiberglass scrim outer covering. The impregnating resin is a 250°F (121°C) curing, high impact strength, toughened epoxy.

Advantages of L-212

- ❖ Superior mechanical properties when compared to composites of woven prepreg because the fiberply process eliminates breaking, twisting, and intertwining of fibers caused by the weaving process.
- ❖ Improved strength and stiffness to weight ratios because excess resin deposits inherent with woven fiberglass prepreps are eliminated.
- ❖ Pre-plyed materials reduce the assembly labor in the production of sandwich panels.
- ❖ Reduced cost relative to woven prepreps because the complicated steps of weaving, stitching, heat - cleaning, and refinishing have been eliminated. The fiberply process produces adhesive prepreg directly from fiber and resin.

Physical Properties

- *Standard Weight:* 0.122 lbs/ft² (595 g/m²)
- *Standard Resin Content:* 36% by weight
- *Volatile Content:* 2% by weight
- *Standard Tack:* Press Grade Medium
- *Specific Gravity:* 1.57
- *Other Weights, Resin Contents, and Fibers are Available*

Availability

- 50" x 122" Sheets (127 cm x 310 cm)
- 50" x 147" Sheets (127 cm x 373 cm)

Shelf Life

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

Cure Cycle

- *60-70 minutes at 260°F (127°C), or*
- *40 minutes at 300°F (149°C).*

Typical Applications

- *Floor Panel Facings*
- *Auto Racing Paneling and Components*
- *Aircraft Detail Part Lay Up*
- *Mobile Launcher Panels*
- *Bicycle Wheel Fairings*

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.