

# L-212

## Carbon Fiberply Prepreg



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### Product Data Sheet

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#### Description

Fiberply L-212 is a unidirectional cross-ply 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.

#### Advantage 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/ft<sup>2</sup> (595 g/m<sup>2</sup>)
- *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)



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## 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:

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