

L-929(GT300)

Solution Coated UD Epoxy Prepreg



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Product Data Sheet

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Description

L-929(GT300) is a solution coated unidirectional epoxy prepreg with excellent mechanical properties. It is a versatile "general purpose" prepreg which can be cured over a broad range of temperatures and pressures. L-929(GT300) is also available in woven fabric up to 60" (152 cm) wide. Typical designations for woven material would be L-929-100-50".

Advantages of L-929(GT300)

- ❖ Thorough wetting of carbon fiber yields a product exhibiting outstanding flexural and compressive strength.
- ❖ L-929(GT300) may be used in applications with a service temperature up to 180°F (82°C).
- ❖ L-929(GT300) performs well in sporting goods, automotive and other commercial applications.

Physical Properties on GT300 Carbon Fiber

- *Fiber Areal Weight:* 0.030 lbs/ft² (145 g/m²)
- *Standard Resin Content:* 35% by weight
- *Volatile Content:* 2% max
- *Standard Tack:* Medium
- *Cured Ply Thickness:* 0.0055" (0.140 mm)
- *Other Weights, Resin Contents, and Fabrics are Available.*

Availability

- *Up to 24" width in rolls up to 100 yards long (61 cm x 91 m)*
- *Slitting to narrow widths available*

Shelf Life

- *3 months at 40°F (4°C) or below*
- *14 days at room temperature (70°F or 21°C)*

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Cure Cycles

- 60 minutes at 250-275°F (121-135°C) with 50 PSI (0.35 MPa) minimum.
- Vacuum bag / oven cures are acceptable for many applications.

Typical Applications

- Business Aircraft Panel Facings
- Auto racing components
- Motorcycle Components
- Sporting Goods
- Panel Stiffeners for marine

(GT300 Fiber = Generic 32 MM Modulus Fiber)

Mechanical Data

PROPERTY	LAMINATE PROPERTIES	
	100 PSI (0.69 MPa) CURE	TEST METHOD
ULTIMATE TENSILE (0°) STRENGTH Room Temperature (RT) 160°F (71°C)	220 KSI (1517 MPa) 200 KSI (1379 MPa)	ASTM D638 ASTM D638
TENSILE (0°) MODULUS Room Temperature (RT) 160°F (71°C)	18.0 MSI (124 GPa) 17.5 MSI (121 GPa)	ASTM D638 ASTM D638
ULTIMATE FLEXURAL (0°) STRENGTH Room Temperature (RT) 160°F (71°C)	220 KSI (15117 MPa) 185 KSI (1276 GPa)	ASTM D790 ASTM D790
FLEXURAL (0°) MODULUS Room Temperature (RT) 160°F (71°C)	17.0 MSI (117 GPa) 16.5 MSI (114 GPa)	ASTM D790 ASTM D790
SHORT BEAM SHEAR (0°) STRENGTH Room Temperature (RT)	15 KSI (103 MPa)	ASTM D2344

NOTICE:

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