

L-556FR

Heat Resistant Epoxy Prepreg, Flame Retardant



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Product Data Sheet

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Description

L-556FR is a heat resistant modified epoxy prepreg with flame retardant additives. This product may be used for many structural or general purpose applications.

Advantages of L-556FR

- ❖ With outstanding heat resistance, L-556FR may be used by the designer to solve material selection problems associated with adverse environmental conditions.
- ❖ L-556FR may be cured over a wide range of temperatures and pressures to create a tough durable structure.
- ❖ The handling characteristics of L-556FR make this material a user-friendly prepreg in the most demanding shop environments.

Physical Properties on 7781 Glass Fabric

- *Standard Weight:* 0.100 lbs/ft² (488 g/m²)
- *Standard Resin Content:* 38% by weight
- *Volatile Content:* Less than 1.5% by weight
- *Standard Tack:* Medium
- *Cured Ply Thickness:* 0.010" (0.254 mm)
- *Other Weights, Fabrics, and Resin Contents are Available.*

Availability

- *Standard roll size is 50" wide x 60 yards (127 cm x 55 m)*
- *Many fabrics and styles are available in up to 60" width in rolls up to 100 yards long (152 cm x 91 m)*

Shelf Life

- *12 months at 0°F (-18°C)*
- *6 months at 40°F (4°C)*



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- 14 days at Room Temperature (70°F or 21°C)

Cure Cycles

- 90 minutes at 350°F (177°C), or
- 120 minutes at 300°F (149°C), or
- 180 minutes at 275°F (135°C).
- Typical Cycle: From room temperature (70°F or 21°C) raise to 350 +0/-10°F (177 +0/-6°C) in 70-140 minutes, hold at 350 +0/-10°F (177 +0/-6°C) for 120 ± 10 minutes. This cure is in an autoclave, blanket press, or platen press at 45-85 PSI (310-586 MPa).

Mechanical Data

PROPERTY	LAMINATE PROPERTIES	
	40 PSI (0.276 MPa) Cure	TEST METHOD
ULTIMATE TENSILE STRENGTH Room Temperature (RT)	61 KSI (421 MPa)	ASTM D638
TENSILE MODULUS Room Temperature (RT)	3.7 MSI (26 GPa)	ASTM D638
ULTIMATE COMPRESSION STRENGTH Room Temperature (RT)	50 KSI (345 MPa)	ASTM D695
ULTIMATE FLEXURAL STRENGTH Room Temperature (RT) 350°F (177°C)	104 KSI (717 MPa) 58 KSI (400 MPa)	ASTM D790 ASTM D790
FLEXURAL MODULUS Room Temperature (RT) 350°F (177°C)	3.4 MSI (23 GPa) 3.2 MSI (22 GPa)	ASTM D790 ASTM D790
SHORT BEAM SHEAR STRENGTH Room Temperature (RT)	9.9 KSI (68 MPa)	ASTM D2344

CAUTION: Do not build any section of L-556FR over 0.250" (6.35 mm) thick. Please contact the J.D. Lincoln, Inc. company for special curing requirements for parts thicker than 0.250" (6.35 mm).

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.