



# PRODUCT DATA SHEET

**LC-E534FR**

**350° Curing Flame Retardant  
Epoxy Aramid Prepreg**

### Description

LC-E534FR is a single or two side coated, 350°F (177°C) flame retardant epoxy aramid prepreg which exhibits excellent performance at temperatures up to 350°F (204°C). LC-E534FR has proven to be ideal where a higher Tg is required along with additional toughness.

### Advantages

LC-E534FR is ideal for multi ply laminates or sandwich structures requiring an elevated Tg with flame retardant characteristics. Excellent strength and toughness allow for LC-E534FR to perform well in a variety of finished part shapes and sizes. Low volatiles have also proven ideal for low void, multiple ply lay ups. A wide variety of cure cycles, cure temperatures and pressure also allow for LC-E534FR to be very user friendly throughout processing.

### Physical Properties

Density: 1.2 G/cm<sup>3</sup> per ASTM D792  
Gel Time @ 350°F (177°C): 3-6 minutes  
Glass Transition Temperature (Tg): 218°F (103°C)  
Color: Cream  
Tack: Medium-High

### Shelf Life/Out Life/Storage

Shelf Life: 6 months from Certification Date  
Out Life: 14 days @ 70°F (21°C)  
Storage Temp: 40° F or below

### Processing/Cure Cycle Recommendations

LC-E534FR can be processed at 350°F (177°C.) for 90 minutes followed up with post cure of up to 400°F (204° C) when a higher Tg is required. A 350°F (177°C) cure for 90 minutes is optimal in most cases using press, vacuum bag or autoclave processing.

Mechanical Properties				
Property	Tested per Specification	R.T. (75 °F)	250° F	350 °F
Ultimate Tensile Strength (psi)	FTMS 406	71,000	66,000	58,000
Tensile Modulus (psi x 10E6)	FTMS 406	4.5	N/A	N/A
Ultimate Compression Strength (psi)	FTMS 406	22,000	17,000	12,000
Compression Modulus (psi x 10E6)	FTMS 406	4.1	N/A	N/A

\*Tests performed using LC-E534FR-A205(281K) @ 40% RC, press cured @ at 350° F (177°C.), 60 psi pressure.

\*\*Additional fabric styles available upon request

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