



PRODUCT DATA SHEET

LC-E434
350° Curing
Epoxy Carbon Prepreg

Description

LC-E434 is a single or two side coated, 350°F (177°C) epoxy carbon prepreg which exhibits excellent performance at temperatures up to 360°F (182°C). LC-E434 has proven to be ideal where a higher Tg is required along with additional toughness.

Advantages

LC-E434 is ideal for multi ply laminates or sandwich structures requiring an elevated Tg. Excellent strength and toughness allow for LC-E434 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-E434 to be very user friendly throughout processing.

Physical Properties

Density: 1.18 G/cm³ per ASTM D792
Gel Time @ 350°F (177°C): 5-8 minutes
Tg: 378°F (192°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-E434 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	68,000	61,000	56,000
Tensile Modulus (psi x 10E6)	FTMS 406	4.2	4.0	3.7
Ultimate Compression Strength (psi)	FTMS 406	70,000	62,000	57,000
Compression Modulus (psi x 10E6)	FTMS 406	4.3	4.1	3.8
Ultimate Flexural Strength (psi)	FTMS 406	94,000	85,000	73,000
Flexural Modulus (psi x 10E6)	FTMS 406	10.6	N/A	9.4

*Tests performed using LC-E434-C101 @ 38% RC, press cured @ at 350°F. (177°C.), 25 psi pressure.

**Additional fabric styles available upon request

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