

**Description**

LC-E324 is a single or two side coated, 175°F (79°C) flame retardant epoxy glass prepreg designed for a multitude of sandwich panel construction(s) as well as multiple ply laminates. This system can be used in a low tack version (press applications) or high tack and drape for complex contours and shapes.

**Advantages**

LC-E324 demonstrates excellent adhesion and toughness using press, vacuum bag or autoclave processing. The wide range of cure cycles allows LC-E324 to exhibit higher elongation thus increased compatibility with numerous composite materials. This system also allows the user to manufacture parts while using lower cost tooling due to the lower temperature cure. Excellent strength and toughness allow for LC-E324 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.

**Physical Properties**

Density: 1.2 G/cm<sup>3</sup> per ASTM D792

Gel Time @ 250°F (121°C): 4 -6 minutes

Glass Transition Temperature (Tg): 205°F (96°C)

Color: Cream

Tack: Medium

**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-E224 can be processed at temperatures from 175°F. (79°C.) for 360 minutes to 250°F. (121°C.) for 60 minutes using low, medium or high pressure. Using a 175°F (79°C) cure for 360 minutes is optimal in most cases using press, vacuum bag or autoclave processing with 25 psi pressure.

Mechanical Properties				
Property	Tested per Specification	R.T. (75 °F)	R.T. Wet	160 °F
<b>Ultimate Tensile Strength (psi)</b>	FTMS 406	61,150	52,025	49,370
<b>Tensile Modulus (psi x 10E6)</b>	FTMS 406	3.7	3.4	3.4
<b>Ultimate Compression Strength (psi)</b>	FTMS 406	60,250	53,500	49,150
<b>Compression Modulus (psi x 10E6)</b>	FTMS 406	3.6	3.5	3.5
<b>Ultimate Flexural Strength (psi)</b>	FTMS 406	87,120	N/A	61,250
<b>Flexural Modulus (psi x 10E6)</b>	FTMS 406	3.4	N/A	3.1
<b>Interlaminar Shear (psi)</b>	FTMS 406	6050	N/A	N/A

\*Tests performed using LC-E324-7781 @ 40% RC, press cured @ at 250° F, 25 psi pressure using ½" thick, 1/8" cell, 3# Nomex™ honeycomb core.

\*\*Additional fabric styles available upon request

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