



# PRODUCT DATA SHEET

LC-E324

175° Curing Flame

Retardant Epoxy Glass Prepreg

## 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 @ 275°F (135°C): 2-4 minutes  
Tg: 205°F (102°C)  
Color: Cream  
Tack: Medium

## Shelf Life/Out Life/Storage

Shelf Life: 4 months from Certification Date  
Out Life: 6 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 a 175°F (79°C) cure for 360 minutes is optimal in most cases using press, vacuum bag or autoclave processing.

Mechanical Properties				
Property	Tested per Specification	R.T. (75 °F)	R.T. Wet	160 °F
Ultimate Tensile Strength (psi)	FTMS 406	61,100	52,025	49,400
Tensile Modulus (psi x 10E6)	FTMS 406	3.7	3.4	3.4
Ultimate Compression Strength (psi)	FTMS 406	60,200	53,500	49,100
Compression Modulus (psi x 10E6)	FTMS 406	3.6	3.5	3.5
Ultimate Flexural Strength (psi)	FTMS 406	87,100	N/A	61,300
Flexural Modulus (psi x 10E6)	FTMS 406	3.4	N/A	3.1
Interlaminar Shear (psi)	FTMS 406	6100	N/A	N/A

\*Tests performed using LC-E324-7781 @ 40% RC, press cured @ at 250°F (121°C.), 25 psi pressure using 1/2" thick, 1/8" cell, 3# Nomex™ honeycomb core.

\*\*Additional fabric styles available upon request

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