



PRODUCT DATA SHEET

LC-E325
250 Degree Curing
Epoxy Glass Prepreg

Description

LC-E325 is a single or two side coated, 250°F (121°C) 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-E325 can be layed up using various core materials e.g. phenolic, aluminum, PVC foam without the use of additional film adhesives. Excellent strength and toughness allow for LC-E325 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-E325 to be very user friendly throughout processing.

Physical Properties

Density: 1.2 G/cm³ per ASTM D792
Gel Time @ 275°F (135°C): 4 -6 minutes
Glass Transition Temperature (Tg): 218°F (103°C)
Color: Cream
Tack: Low-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-E325 can be processed at temperatures from 235°F. (113°C.) for 90 minutes to 290°F. (143°C.) for 40 minutes, using low, medium or high pressure. A 250°F (121°C) cure for 60 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
Ultimate Tensile Strength (psi)	FTMS 406	61,150	51,950	49,150
Tensile Modulus (psi x 10E6)	FTMS 406	3.7	3.5	3.5
Ultimate Compression Strength (psi)	FTMS 406	61,200	53,500	49,750
Compression Modulus (psi x 10E6)	FTMS 406	3.6	3.5	3.5
Ultimate Flexural Strength (psi)	FTMS 406	86,250	N/A	61,500
Flexural Modulus (psi x 10E6)	FTMS 406	3.5	N/A	3.3
Interlaminar Shear (psi)	FTMS 406	6150	N/A	N/A
Flatwise Tensile Strength (psi)	FTMS 406	1260	N/A	N/A
Sandwich Peel Strength (in lbs./in.)	FTMS 406	11	N/A	N/A

*Tests performed using LC-E325-7781 @ 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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