



PRODUCT DATA SHEET

LC-E335QC

250 Degree Quick Cure Flame Retardant Epoxy Glass Prepreg

Description

LC-E335QC is a single or two side coated, 250°F (121°C) quick cure 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-E335QC can be cured within 20 minutes at 275° (135° C). It can also 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-E335QC 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-E335QC to be very user friendly throughout processing.

Physical Properties

Density: 1.2 G/cm³ per ASTM D792
Gel Time @ 275°F (135°C): 3-5 minutes
Glass Transition Temperature (T_g): 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-E335QC can be processed at temperatures from 235°F. (113°C.) for 60 minutes to 290°F. (143°C.) for 20 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	61,100	52,000	47,350
Tensile Modulus (psi x 10E6)	FTMS 406	3.6	N/A	3.4
Ultimate Compression Strength (psi)	FTMS 406	59,300	50,500	47,700
Compression Modulus (psi x 10E6)	FTMS 406	3.6	3.5	3.5
Ultimate Flexural Strength (psi)	FTMS 406	84,100	N/A	62,200
Flexural Modulus (psi x 10E6)	FTMS 406	3.6	N/A	3.3
Interlaminar Shear (psi)	FTMS 406	5900	N/A	N/A

*Tests performed using LC-E335QC-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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