



## PRODUCT DATA SHEET

LC-E423

250° Curing

Clear Toughened Epoxy Carbon Prepreg

### Description

LC-E423 is a 250°F (121°C) toughened, clear epoxy carbon prepreg specifically designed for optical clarity. LC-E423 can be supplied as a single or two side coated material in a low, medium or high tack version to accommodate laminate construction as well as complex contours and shapes.

### Advantages

LC-E423 remains optically clear throughout processing allowing the finished parts to reflect the substrate below. Low volatiles have proven ideal for a pinhole free surface resulting in an excellent surface finish. A wide variety of cure cycles and cure temperatures also allow for LC-E423 to be very user friendly throughout processing. LC-E423 can also be supplied in a flame retardant version.

### Physical Properties

Density: 1.2 G/cm<sup>3</sup> per ASTM D792  
Gel Time @ 275°F (135°C): 4-7 minutes  
T<sub>g</sub>: 200°F (93°C)  
Color: Clear/Clear Tint  
Tack: Low, 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-E423 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.

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