



## LC311 Polyester Prepreg

LC311 is a low temperature curing variant of LC310. It is a high performance polyester prepreg that is used in a wide variety of applications including: ballistic armor, structural components, recreational equipment and radomes. LC311 has an outstanding combination of strength and toughness. LC311 cures below 200° F.

### Properties of LC311-7781 Glass Fabric

Flexural Strength, psi	90,000
Flexural Modulus, psi	3,450,000
Tensile Strain, psi	62,000
Tensile Modulus, psi	3,240,000
Compressive Strength, psi	63,000
Compressive Modulus, psi	3,300,000
Interlaminar Shear Strength, psi	7,200
Dielectric Constant at 7.7 GHZ	4.40
Loss Tangent at 7.7 GHZ	0.013

### Process Information – LC311

#### Vacuum Bag in Oven Cycle

Draw vacuum  
5° F/minute ramp to 165° F  
Hold for 20 minutes  
Ramp to 190° F - 200° F  
Hold for 120 minutes  
Cool to less than 150° F at 3 to 5° F/minute  
Release vacuum and demold

#### Recommended Storage

- Room Temperature (77° F)	Two (2) Weeks
- 0° F	Six (6) Months

NOTE: LC311 Prepreg is wound with a polyethylene film liner for easy release. The rolls are sealed in polyethylene film bags to protect prepreg from moisture and other contaminants. The bags should remain sealed while the prepreg is under refrigeration and only removed when the prepreg has had sufficient time to warm to room temperature. When not in use, the prepreg should be returned to refrigerated storage. Care should be exercised to limit out-time of the prepreg in order to insure maximum shelf life. Torn bags should be replaced.

**NOTE:** The data presented has been developed under controlled manufacturing and test conditions and is considered accurate. No warranty is expressed or implied regarding the accuracy of these data or the use of this product. It is the responsibility of the end user to determine suitability for use.