

## 221 4" Fiberglass Tape



**Overview:** Woven fabrics are strong reinforcements because the fibers are bundled into yarns oriented in just two directions. The warp and fill yarns run at 0 and 90 degrees respectively. Thus, fabrics are anisotropic, or strong in only two directions.

Fabrics need to be oriented so the fiber yarns run parallel to the expected loads. If extra strength is needed in a different direction, another ply must be added at an angle to the first. The most common angles are +/- 45 degrees.

These narrow widths of fiberglass find many applications in selectively reinforcing edges and seams of molding and laminations as well as pipe winding applications. The fully seamed edges avoid the problems caused by cutting narrow strips from full width fabrics. These tapes saturate easily and in most respects are similar to a 10 oz. fabric.

Available in 10 yard and 50 yard rolls. Available in 1 in, 1.5 in, 2 in, 3 in, 4 in, 6 in, 12 in, and swatches.

### General Properties for Woven Fabrics:

High Tensile Strength	Glass is one of the strongest textile fibers, having greater specific tensile strength than steel wire of the same diameter, at a lower weight
Dimensional Stability	Low elongation under load, generally 3% or less. Glass fibers produce fabrics with excellent dimensional stability under various types of conditions.
High Heat Resistance	Glass fabrics have excellent dimensional stability under various types of conditions.
Fire Resistance	Composed of inorganic materials, glass fabrics are noncombustible, a natural choice where flammability is a concern.
Chemical Resistance	Like glass itself, fiberglass fabrics are highly resistant to attack by most chemicals.
Durability	Being inert, glass fabrics are unaffected by sunlight, fungus, or bacteria.
Economical	Glass fabrics are lower in cost than many other fabrics for smaller applications.

### Specific Product Properties:

Style	64TC
Finish	Untreated
Weave Pattern	Plain
Yarn Description	Warp: ECG 75 1/3 Fill: ECG 50 1/0
Count (Ends x Picks) inches	18 x 17
Weight	8.75 oz/yard <sup>2</sup>
Breaking Strength (lb/in)	N/A N/A
Thickness	0.105 inches
Width	4 inch

### Weave Pattern Rankings:

	Thickness	Weight	Strength	Porosity
<b>Plain</b>	3	1	3	1
<b>Twill</b>	2	1	4	2
<b>4-Harness Satin</b>	3	1	4	2
<b>8-Harness Satin</b>	1	1	7	4
<b>Leno</b>	7	7	1	7
<b>Mock Leno</b>	6	1	2	4

This was a scale from 1 to 7, with 1 being the lowest and 7 being the highest.

### Resin Compatibility:

Part Number	Polyester Resin	Vinyl Ester Resin	System 2000 Epoxy
217	x	x	x
218	x	x	x
219	x	x	x
220	x	x	x
221	x	x	x
222	x	x	x
223	x	x	x
224	x	x	x
241	x	x	x
243	x	x	x
244	x	x	x
245	x	x	x
247	x	x	x
254	x	x	x
259	x	x	x
262	x	x	x
271	x	x	x

An "X" means the fabric is compatible with the resin.  
The compatibility is based on Fibre Glast Development's resins only.