

## 522 Gun Roving



**Overview:** Material in this form exhibits the highest properties achievable for a given fiber family. They are typically supplied on spools so that they may be fed into filament winders or unrolled and cut as they are needed for selective stiffening.

The fibers must remain in tension as the resin cures or the mechanical advantage is lost. Once in service, kinks in the tow must be pulled straight before the fiber will hold the load. It is possible to wind extremely strong tubes using this form of material.

Available in 50lb rolls, this gun roving feeds through our 171-A Air Chopper Gun and is designed for use in all polyester spray up systems, both filled and unfilled as well as for filament winding. This versatile roving chops cleanly, wets rapidly and completely. Yields approximately 205 yards per pound.

### General Properties for Gun Roving

- Excellent mold and radii conformance
- Rapid wet through and complete wet out
- Ease of rollout and air release
- Versatility in different chopper guns and transfer systems
- Good laminate properties and wet strength retention

### Typical Roving Properties:

Property	Description
Type of Fiber	E-Glass
Type of Sizing	Chrome / Silane
Static	Minimal
Strand Integrity	High
Ribbonization	High
Strand Breakup	Excellent

### Typical Laminate Mechanical Properties:

Property	Dry Range, MP	Dry Range, PSI
<b>Tensile Strength</b> (ASTM D 638)	59 - 98	8490 - 14182
<b>Tensile Modulus</b> (ASTM D 638)	7542 - 14893	1094000 - 2160000
<b>Flexural Strength</b> (ASTM D 790)	166 - 307	24048 - 44510
<b>Flexural Modulus</b> (ASTM D 790)	6939 - 12065	1006000 - 1750000
	Wet* Range, MPA	Wet* Range, PSI
<b>Tensile Strength</b> (ASTM D 638)	58 - 94	8450 - 13699
<b>Tensile Modulus</b> (ASTM D 638)	5626 - 11562	816000 - 1677000
<b>Flexural Strength</b> (ASTM D 790)	132 - 259	9282 - 37586
<b>Flexural Modulus</b> (ASTM D 790)	6053 - 13217	878000 - 1917000

Roving in a General Purpose Polyester Resin @ 35.5% Glass Content, No Filler

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## Product Data

Yield (Nom. Yds/Lb)	Linear Density (Nom. Tex)
207	2400

## Resin Compatibility:

Part Number	Polyester Resin	Vinyl Ester Resin	System 2000 Epoxy
522	X	X	X

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