

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
Roving Yields (yd/lb)	207
Type of Sizing	Chrome / Silane
Static	Minimal
Strand Integrity	High
Ribbonization	High
Strand Breakup	Excellent

Typical Laminate Mechanical Properties:

Property	Unit	Average Value		ASTM	Method
		Dry	Wet		
Flexural Strength	PSI	26,200	26,400		D790
Flexural Modulus	PSI	1.15 x 10 ⁶	0.96 x 10 ⁶		D790
Tensile Strength	MPA	88.9	88		D638
Glass Content	% by wt.	32	32		D2584

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.