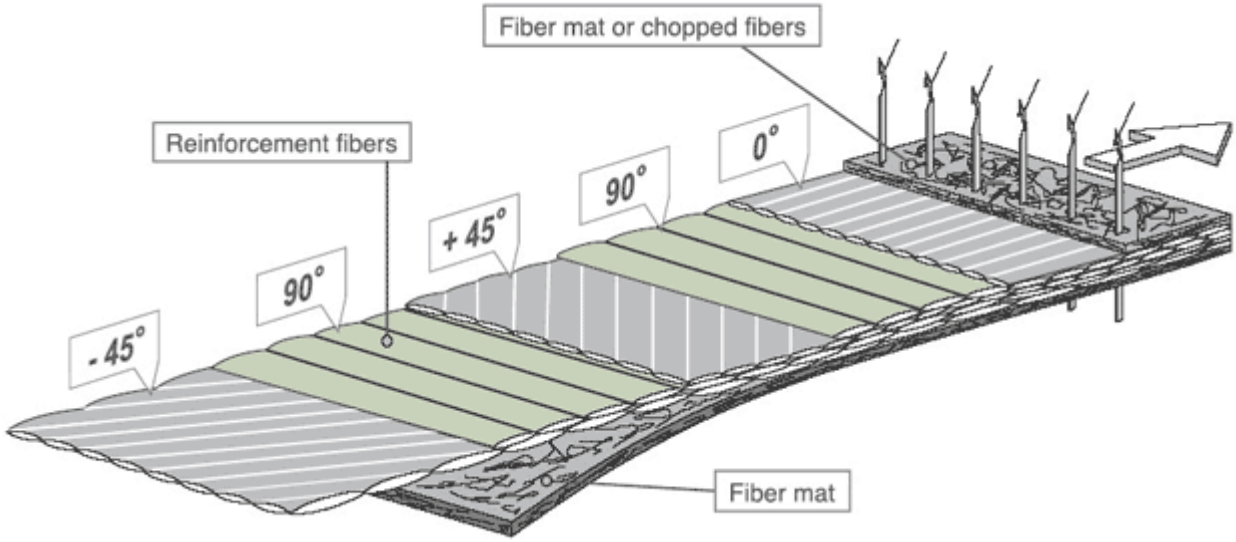
# Multiaxial Fabrics




Multi-axial fabrics are non-crimp, multi-axis and multi-layered reinforcements. Layer count, orientation, weight and fiber content of the layers vary and is based on the product line and application.

The layers are stitched with polyester yarn. Fabrics can be produced using multiple axis (0°,90 °,+45°,-45°), or combined with chopped mat and multiple layers of veil and/or non-woven materials.

The typical applications are wind energy, marine/ship building, recreation/leisure products, automotive, aerospace & defence, etc.

### Properties

- ✔ Increased strength, reduced product weight and better surface finish (less 'print through')
- ✔ Orientated unidirectional layers are structurally more efficient than crimped woven fibres
- ✔ Improved fatigue and impact resistance
- ✔ Quicker to wet-out than woven fabrics
- ✔ Available in very heavy weights allowing faster deposit rates
- ✔ Binder less CSM can be added to further cut down on lay-up time and increase speed of wet-out

### Application

- ✔ High performance composite cars
- ✔ GRP power boats
- ✔ Blades for wind energy
- ✔ FRP Pipelines

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| **Typical Range** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Style | Product Code | Layer | | | | Stitch Yarn | Mat | Total Weight |
| | | 0° | 90° | +45° | -45° | | | |
| | | g/m² | | | | | | |
| 0° Unidirectional | L400 | 413 | 54 | - | - | 12 | 50 | 529 |
| | L600 | 606 | 54 | - | - | 12 | 50 | 722 |
| | L1200 | 1212 | 54 | - | - | 12 | 50 | 1328 |
| 90° Unidirectional | T300 | - | 300 | - | - | 12 | - | 312 |
| | T450 | - | 456 | - | - | 12 | - | 468 |
| | T600 | - | 600 | - | - | 12 | - | 612 |
| 0° / 90°Biaxial | LT600 | 330 | 300 | - | - | 12 | - | 642 |
| | LT850 | 413 | 438 | - | - | 12 | - | 863 |
| | LT1200 | 606 | 600 | - | - | 12 | - | 1218 |
| | LT1700 | 800 | 891 | - | - | 12 | - | 1703 |
| ± 45° Double Biaxial | BX400 | - | - | 199 | 199 | 8 | - | 406 |
| | BX600 | - | - | 301 | 301 | 8 | - | 610 |
| | BX800 | - | - | 401 | 401 | 8 | - | 810 |
| | BX936 | - | - | 468 | 468 | 8 | - | 944 |
| 0° / ± 45° Triaxial | TLX725 | 283 | - | 214 | 214 | 10 | - | 721 |
| | TLX1170 | 283 | 283 | 301 | 301 | 10 | - | 1178 |
| +45° / 90° / -45° Triaxial | TTX1170 | / | 425 | 401 | 401 | 8 | - | 1235 |
| 0° / +45° / 90° / -45° Quadraxial | QX800 | 212 | 212 | 199 | 199 | 10 | - | 832 |
| | QX1000 | 283 | 283 | 214 | 214 | 10 | - | 1004 |
| | QX1170 | 283 | 283 | 301 | 301 | 10 | - | 1178 |