



# SELCOM

## Multiaxial Technology

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**MULTIAXIAL TECHNOLOGY (NCF)**  
 unidirectional & stitched multiaxial fabrics in  
 glass, carbon, aramid... and hybrids for the  
 composite industry

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## Technical Data Sheet

**PRODUCT NAME KETXL1200M150** : triaxial fabric 0° ±45° hybrid in "E" glass and aramid fibre stitched with chopped strand mat

| layers | angle     | fiber                                   | plan | tex  | areal weight      | areal weight |
|--------|-----------|---|------|------|-------------------|--------------|
|        | tolerance |   |      |      | gr/m <sup>2</sup> | tolerance    |
| 0°     | ± 1°      | E glass : NEG Roving 2002 or equivalent | L4   | 2400 | 283               | ± 3 %        |
| 0°     | ± 1°      | Aramid: Twaron 3220                     | L4   | 340  | 162               | ± 3 %        |
| + 45°  | ± 1°      | E glass : NEG Roving 2002 or equivalent | L4   | 600  | 252               | ± 3 %        |
| + 45°  | ± 1°      | Aramid: Twaron 3220                     | L4   | 340  | 125               | ± 3 %        |
| - 45°  | ± 1°      | E glass : NEG Roving 2002 or equivalent | L4   | 600  | 252               | ± 3 %        |
| - 45°  | ± 1°      | Aramid: Twaron 3220                     | L4   | 340  | 125               | ± 3 %        |
| random | -         | E glass : OCV M3060                     | L4   | 2400 | 150               | ± 3 %        |
| 0°     | -         | Polyester yarn                          | L4   | 8,0  | 10                | ± 3 %        |
|        |           | TOTAL gr/m <sup>2</sup>                 | -    | -    | 1359              | ± 3 %        |

### Characteristics for fabric

|   |                                  |
|---|----------------------------------|
| lunghezza rotolo - standard roll length:              | mtl 50 ± 1 mtl                   |
| larghezza rotolo - standard roll width:               | mm 1270 ± 10 mm                  |
| peso netto rotolo - net roll weight:                  | Kg. 86,5 ± 3 %                   |
| tolleranza sulla grammatura - areal weight tolerance: | ± 3 % ( ± 41 gr/m <sup>2</sup> ) |
| grammatura teorica - theoretical areal weight:        | gr/m <sup>2</sup> 1359           |
| identificazione rotolo - ident roll:                  | KETXL1200M150                    |
| tipo di legatura - knitting type:                     | Chain + Tricot                   |
| filo di legatura - stitch yarn:                       | Polyester texturated, 8,0 tex    |

### Characteristics for filament yarn

|   |                        |                                   |
|---|------------------------|-----------------------------------|
| tipo fibra - type:                            | Twaron 3220            | NEG Roving 2002                   |
| binder content:                               | 0.90%                  | 0.55 - 0.65 % ( nominal )         |
| produttore - manufacturer:                    | Teijin Twaron b.v.     | Electric Glass Fiber UK L.t.d.    |
| densità volumetrica - volumetric density:     | g/cm <sup>3</sup> 1,44 | gr/cm <sup>3</sup> 2.59 - 2.62    |
| diamentro filamento - filament diameter:      | µm 12 - µm 17          | µm 15 - µm 17                     |
| resistenza a trazione - tensile strength:     | Mpa 3150**             | Mpa 1900 - 2400 ( ASTM D-2343 ) * |
| modulo a trazione - tensile modulus:          | Gpa 110**              | Gpa 69 - 76 ( ASTM D-2343 ) *     |
| allungamento a rottura - elongation at break: | 2.7%**                 | 3.5 - 4 %                         |

\* According to ASTM D-2343. \*\* Measured according Test Methodes of Twaron 05.92.0358. All these informations can be used for material selection purposes only.

Fregona li 20/06/23

Technical manager  
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