



# SELCOM

## Multiaxial Technology

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**MULTIAXIAL TECHNOLOGY (NCF)**  
*unidirectional & stitched multiaxial  
 fabrics in glass, carbon, aramid... and  
 hybrids for the composite industry*  
 internet: [www.selcom-srl.com](http://www.selcom-srl.com)

## Technical Data Sheet

PRODUCT NAME UNIE800  
 Unidirectional fabric 0° in "E" glass

layers	angle tolerance	fiber	plan	tex	areal weight	areal weight
					gr/m <sup>2</sup>	tolerance
0°	-	Polyester yarn	M2	8,0	11	± 3 %
0°	± 2°	E glass : NEG Roving 2002 or equivalent	M2	2400 - 1200	800	± 3 %
90°	± 2°	E glass : NEG Roving 2002 or equivalent	M2	300	50	± 3 %
TOTAL gr/m <sup>2</sup>					861	± 3 %

### Characteristics for fabric

lunghezza rotolo - standard roll length:	mtl 50 ± 1 mtl
larghezza rotolo - standard roll width:	mm 1270 ± 20 mm
peso netto rotolo - net roll weight:	Kg. 54,7 ± 3 %
tolleranza sulla grammatura - areal weight tolerance:	± 3 % ( ± 26 gr/m <sup>2</sup> )
grammatura teorica - theoretical areal weight:	gr/m <sup>2</sup> 861
identificazione rotolo - ident roll:	UNIE800
tipo di legatura - knitting type:	tricot
filo di legatura - stitch yarn:	polyester, texturated, 8,0 tex

### Characteristics for filament yarn

tipo fibra - type:	NEG Roving 2002
binder content:	0.55 - 0.65 % ( nominal )
produttore - manufacturer:	Nippon Electric Glass fiber
densità volumetrica - volumetric density:	gr/cm <sup>3</sup> 2.59 - 2.62
diametro filamento - filament diameter:	µm 14 ( 300 tex ) - µm 17 ( 2400-1200 tex )
resistenza a trazione - tensile strength:	Mpa 1900 - 2400 ( ASTM D-2343 ) *
modulo a trazione - tensile modulus:	Gpa 69 - 76 ( ASTM D-2343 ) *
allungamento a rottura - elongation at break:	3.5 - 4 %

\*According to ASTM D-2343. All these informations can be used for material selection purposes only.

Fregona li 22/12/23

Technical Manager  
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TYPE APPROVED PRODUCT - CERTIFICATE NO. TAK000017V



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