



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

Technical Data Sheet

PRODUCT NAME KEBXS400M200

Code Nr. 22312000382

Biaxial fabric 0° 90° hybrid in "E" glass and aramid fibre
 balanced in volume stitched with chopped strand mat

layers	angle	fiber	plan	tex	areal weight	areal weight
	tolerance				gr/m ²	tolerance
0°	-	Polyester yarn	L5 - L4	8,3	9	± 3 %
0°	± 1°	E glass : PPG Roving 2002 or equivalent	L5 - L4	1200 - 900	118	± 3 %
0°	± 1°	Twaron 2200	L5 - L4	340 - 170	67	± 3 %
90°	± 1°	E glass : PPG Roving 2002 or equivalent	L5 - L4	600	122	± 3 %
90°	± 1°	Twaron 2200	L5 - L4	340 - 170	66	± 3 %
random	-	E glass : PPG Roving 7864/6800 or equivalent	L5 - L4	2600 - 2400	200	± 3 %
		TOTAL grm²	-	-	582	± 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. 37 ± 3 %
tolleranza sulla grammatura - areal weight tolerance:	± 3 % (± 17 gr/m ²)
grammatura teorica - theoretical areal weight:	gr/m ² 582
identificazione rotolo - ident roll:	KEBXS400M200
tipo di legatura - knitting type:	chain + tricot
filo di legatura - stitch yarn:	polyester, texturated, 8,3 tex

Characteristics for filament yarn

tipo fibra - type:	Twaron 2200	PPG Roving 2002
binder content:	0.90%	0.55 - 0.65 % (nominal)
produttore - manufacturer:	Teijin Twaron b.v.	PPG Industries
densità volumetrica - volumetric density:	g/cm ³ 1,44	gr/cm ³ 2.59 - 2.62
diamentro filamento - filament diameter:	µm 12 - µm 17	µm 12 - 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 %

* Determined from resin impregnated rovings according to ASTM D-2343. **Measured according Test Methodes of Twaron O5.92.0358. These informations can be used for material selection purposes only.
 Fregona li 04/06/14

Quality Assurance
 Ing. Giovanni Fardin

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