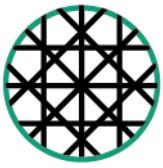
selcom Multiaxial Technology

ANGELONI GROUP

0° -45° 90° +45°



TECHNICAL DATA SHEET

CEQX800-E5

Quadriaxial fabric 0º+45º90º-45º hybrid in E glass and carbon fibre

Layer	Angle Tolerance	Fiber	Gauge	Tex	Areal Weight gr/M²	Tolerance
0º	-	Polyester yarn	5	8	7	±5%
0º	± 2º	E glass multi-compatible	-	1200 - 900	120	±5%
0º	± 2º	Carbon: Tairyfil TC36P 12K or equivalent	-	800	80	±5%
+45º	± 2º	Carbon: Tairyfil TC36P 12K or equivalent	-	800	80	±5%
+45º	± 2º	E glass multi-compatible		300	120	±5%
90º	± 2º	Carbon: Tairyfil TC36P 12K or equivalent	-	800	80	±5%
90º	± 2º	E glass multi-compatible		600	120	±5%
-45º	± 2º	Carbon: Tairyfil TC36P 12K or equivalent	-	800	80	±5%
-45º	± 2º	E glass multi-compatible		300	120	±5%
		TOTAL gr/M²	-	-	807	±5%

Characteristics for fabric

Lunghezza rotolo - standard roll length:	LM	50	±1 LM
Larghezza rotolo - standard roll width:	MM	1270	± 20 mm
Peso netto rotolo - net roll weight:	KG	51,2	± 2,56 Kg
Tolleranza sulla grammatura – areal weight tolerance:	Gr/M²	±5%	± 40 gr/M²
Grammatura teorica – theoretical areal weight:	Gr/M²	807	
Identificazione rotolo - ident roll:	**CEQX800-E5**		
Tipo di legatura - knitting type:	Tricot		
Filo di legatura – stitch yarn:	Polyester, texturated, 8.0 tex		
Diametro tubo – cardboard inner core diameter :	mm 76 (3”)		

Characteristics for filament yarn

Tipo fibra – Type:	Tairyfil TC36P 12K / E glass multi-compatible
Size amount:	1,0 – 1,6 %* / 0.55 – 0.65 %*
Densità volumetrica – Volumetric density:	g/cm³ 1.86 / gr/cm³ 2.59 – 2.62
Nr. filamenti – Number of filaments:	12000 / -
Carico di rottura a trazione – Tensile strength:	Mpa 4900* / Mpa 1900 – 2400*
Modulo a trazione – Tensile modulus:	Gpa 250* / Gpa 69 – 76*
Allungamento a rottura – Elongation at break:	2.0 %* /3.5 - 4 %*

* Typical values : all these informations can be used for material selection purposes only.

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TECHNICAL MANAGER
Ing. Andrea Giovanni Fardin

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