

Typical Fibre Properties

	T 300	T 300	T 300	T 300 J	T 300 J
number of filaments	3000	6000	12000	3000	6000
tensile strength	ksi	512	512	512	611
	MPa	3530	3530	3530	4210
	kgf/mm ²	360	360	360	430
tensile modulus	msi	33.4	33.4	33.4	33.4
	GPa	230	230	230	230
	kgf/mm ²	23000	23000	23000	23500
elongation in %		1.5	1.5	1.5	1.8
mass per unit-length		198	396	800	198
tex (g/1000m)					396
density in g/cm ³		1.76	1.76	1.76	1.78

Yarn Properties T 300

property	unit	filaments	nominal value
tensile strength	kgf/mm ² (MPa)		360 (3530)
tensile modulus	10 ³ kgf/mm ² (GPa)		23.5 (230)
Elongation	%		1.5
Density	g/cm ³	1000	1.76
	g/cm ³	3000	1.76
	g/cm ³	6000	1.76
	g/cm ³	12000	1.76
Yield	tex (g/1000m)	1000	66
	tex (g/1000m)	3000	198
	tex (g/1000m)	6000	396
	tex (g/1000m)	12000	800
specific heat	cal/g.°C		0.19
volume resistivity	x 10 ⁻³ Ωcm		1.7
0° Coef. of thermal expansion	x 10 ⁻⁶ °C ⁻¹		-0.41
0° thermal conductivity	cal/cm s °C		2.5 x 10 ⁻²
cross sectional area	mm ²	1000	0.04
	mm ²	3000	0.11
	mm ²	6000	0.23
	mm ²	12000	0.45
filament diameter	µm		7

Composite Property (resin system: 3631) (measured temp: RT)

property	unit	filaments	nominal value
0° tensile strength	kgf/mm ² (MPa)		180 (1760)
tensile modulus	10 ³ kgf/mm ² (GPa)		13.5 (132)
Elongation	%		1.3
0° compressive strength	kgf/mm ² (MPa)		160 (1570)
compressive modulus	10 ³ kgf/mm ² (GPa)		13.0 (125)
0° ILSS	kgf/mm ² (MPa)		11 (110)

Yarn Properties T 300 J

property	unit	filaments	nominal value
tensile strength	kgf/mm ² (MPa)		430 (4210)
tensile modulus	10 ³ kgf/mm ² (GPa)		23.5 (230)
elongation	%		1.8
density	g/cm ³	3000	1.78
	g/cm ³	6000	1.78
	g/cm ³	12000	1.78
yield	tex (g/1000m)	3000	198
	tex (g/1000m)	6000	396
	tex (g/1000m)	12000	800
specific heat	cal/g.°C		0.18
volume resistivity	10 ⁻³ Ωcm		1.5
0° Coef. of thermal expansion	10 ⁻⁶ °C ⁻¹		-0.43
0° thermal conductivity	cal/cm s °C		2.23 x 10 ⁻²
cross sectional area	mm ²	3000	0.11
	mm ²	6000	0.22
	mm ²	12000	0.45
filament diameter	µm		7

Composite Property (resin: # 3631) (measured temp: RT)

property	unit	filaments	nominal value
0° tensile strength	kgf/mm ² (MPa)		210 (2060)
tensile modulus	10 ³ kgf/mm ² (GPa)		13.5 (130)
elongation	%		1.4
0° compressive strength	kgf/mm ² (MPa)		160 (1570)
compressive modulus	10 ³ kgf/mm ² (GPa)		13.0 (125)
0° ILSS	kgf/mm ² (MPa)		11 (110)

EU Directives: 2000/53/EC (in force since 1st, July 2003)
 2003/11/EC (in force since 15th, August 2004)
 2002/95/EC (coming into force on 1st, July 2005)
 2002/96/EC (coming into force on 13th, August 2005)

The above mentioned material contains prohibited dangerous substances as indicated in the table below:

Prohibited dangerous substances (description / code)	Presence (% in weight)	Presence allowed by the EU directive
Lead	0	0 ^{*)}
Mercury	0	0
Cadmium	0	0
Hexavalent chromium	0	0
Polybrominated byphenils (PBB)	0	0
Polybrominated diphenyl ethers (PBDE)	0	0
Diphenylethers Pentabromderivate	0	0 ^{**)}
Diphenylethers Octabromderivate	0	0 ^{**)}
Pentabromdiphenylethers (PentaBDE)	0	0
Octabromdiphenylethers (OctaBDE)	0	0

*)

- Lead as an alloying element in steel containing up to 0,35% lead by weight, aluminium containing up to 0,4% lead by weight and as a copper alloy containing up to 4% lead by weight;
- Lead in high melting temperature type solders (i. e. tin-lead solder alloys containing more than 85% lead).

**)

- Mustn't be present in circulation as well as used as material or in concentrates over 0,1 % in weight, and as a substance of a material or preperation.
- Products mustn't be in circulation if its or its flame-protection including this substance as in concentration over 0,1 % in weight.

[These explanatory notes are based on information provided by our suppliers and therefore are no legally binding statements.]