

Carbon Fibre

TORAYCA®

TYPE OF CARBON FIBRE

T700SC

Item	Property	Unit	Filaments	Nominal Value
TORAYCA® Yarn Properties	Tensile Strength	kgf/mm ² (MPa)		500(4900)
	Tensile Modulus	10 ³ kgf/mm ² (MPa)		23.5(230)
	Elongation	%		2.1
	Density	g/cm ³		1.80
	Yield	tex(g/1000m) tex(g/1000m)	12000 24000	800 1650
	Specific Heat	cal/g.°C		0.77
	Volume Resistivity	x10 ⁻³ Ω.cm		1.6
0 Coef. of Thermal Expansion	x10 ⁻⁶ K ⁻¹		-0.38	
0 Thermal Conductivity	cal/cm.s.°C		9.8	
	Cross Sectional Area	mm ²	12000 24000	0.44 0.92
	Filament Diameter	µm	12000 24000	6.9 7.0
Composite Property (Resin System: 2500) (Measured Temp: RT)	0 Tensile Strength	kgf/mm ² (MPa)		260(2550)
	Tensile Modulus	10 ³ kgf/mm ² (GPa)		14(137)
	Elongation	%		1.9
	0 Compressive Strength	kgf/mm ² (MPa)		155(1520)
	Compressive modulus	10 ³ kgf/mm ² (GPa)		13(1270)
	0 ILSS	kgf/mm ² (MPa)		9(88)

SOFICAR

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Sales Office

Head Office & plant

3 avenue du chemin de Presles

Route de Lagor

94 410 Saint Maurice Cedex - France

64 150 Abidos - France

Tel : 33 (0)1 45 11 12 80

Tel : 33 (0)5 59 60 71 00

Fax : 33 (0)1 48 85 62 92

Fax : 33 (0)5 59 60 71 10

E-mail : info@soficar-carbon.com

E-mail : info@soficar-carbon.com