

TORAYCA®

TYPE OF CARBON FIBRE

T700S

Item	Property	Unit	Filaments	Nominal Value
TORAYCA® Yarn Properties	Tensile Strength	MPa (kgf/mm ²)		4900 (500)
	Tensile Modulus	GPa (10 ³ kgf/mm ²)		230 (23.5)
	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		0.18
	Volume Resistivity	x10 ⁻³ Ω.cm		1.6
0 ° Coef. of Thermal Expansion	x10 ⁻⁶ °C ⁻¹		-0.38	
0 ° Thermal Conductivity	cal/cm.s.°C		2.24 x 10 ⁻²	
	Cross Sectional Area	mm ²	12000 24000	0.44 0.92
	Filament Diameter	µm		7
Composite Property (Resin System: 2500) (Measured Temp: RT)	0 ° Tensile Strength	MPa (kgf/mm ²)		2550 (260)
	Tensile Modulus	GPa (10 ³ kgf/mm ²)		135 (14.0)
	Elongation	%		1.7
	0 ° Compressive Strength	MPa (kgf/mm ²)		1470 (150)
	Compressive modulus	GPa (10 ³ kgf/mm ²)		127 (13.0)
	0 ° ILSS	MPa (kgf/mm ²)		90 (9)

SOFICAR

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