

The first Torayca™ intermediate modulus fiber remains an industry standard with its excellent balance of composite properties. Torayca™ T800H is the preferred choice for prestigious aerospace engineering programmes and also motorsports and ocean racing. Manufactured in France and Japan.

## PRODUCT DESIGNATION

T800H	B	6 000	4	0	A
Fiber Type	Twist*	Filament Count	Sizing Type	Surface Treatment	Sizing Amount

\*Blank: Twisted  
B: Untwisted

## RESIN SYSTEM COMPATIBILITY

SIZING TYPE & AMOUNT	RESIN SYSTEM COMPATIBILITY	METHOD
40A / 40B (1%)	Epoxy, phenolic, BMI	TY-QA-005
50B (1%)	Epoxy, phenolic, polyester, vinyl ester	TY-QA-005

## FIBER PROPERTIES

PROPERTY	UNIT	FILAMENT COUNT	NOMINAL VALUE*	METHOD
Tensile Strength	MPa (kgf/mm <sup>2</sup> )		5490 (560)	TY-QA-002
Tensile Modulus	GPa (10 <sup>3</sup> kgf/mm <sup>2</sup> )		294 (30)	TY-QA-002
Elongation	%		1.9	TY-QA-002
Density	g/cm <sup>3</sup>		1.81	TY-QA-003
Yield	g/1000m	6 000	223	TY-QA-004
		12 000	445	

\* Lot properties are reported as average values of a test set per bobbin sampled. The stated values are typical values. For design purposes, please contact us.

## FUNCTIONAL PROPERTIES

PROPERTY	UNIT	FILAMENT COUNT	NOMINAL VALUE
Specific Heat	Cal/g.°C		0.18
Electric Resistivity	x 10 <sup>-3</sup> Ω.cm		1.4
CTE	α10 <sup>-6</sup> /°C		-0.56
Thermal Conductivity	Cal/cm.S.°C		0.0839
Filament Diameter	μm		5
Cross Sectional Area	mm <sup>2</sup>	6 000	0.12
		12 000	0.25

## COMPOSITE PROPERTIES\*

PROPERTY	UNIT	NOMINAL VALUE
Tensile Strength	MPa (kgf/mm <sup>2</sup> )	2840 (290)
Tensile Modulus	GPa (10 <sup>3</sup> kgf/mm <sup>2</sup> )	160 (16.5)
Tensile Strain	%	1.6
Compressive Strength	MPa (kgf/mm <sup>2</sup> )	1570 (160)
Flexural Modulus	GPa (10 <sup>3</sup> kgf/mm <sup>2</sup> )	145 (15.0)
ILSS	MPa (kgf/mm <sup>2</sup> )	110 (11)

\* Toray 3631 – 180°C resin system. Measured temperature: RT. Normalized to 60% fiber volume.

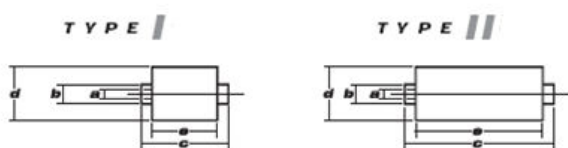
## PACKAGING

Each bobbin of TORAYCA carbon fibre is protected against dust and packed in container to prevent damage during transportation

The table below summarizes the tow sizes and packaging available for standard material. Other bobbin sizes may be available on a limited basis.

TOW SIZES	BOBBIN NET WEIGHT (kg)	BOBBIN TYPE	BOBBIN SIZE (mm)					SPOOL PER CASE	CASE NET WEIGHT (kg)
			a	b	c	d	e		
6K	2.0	I	76	82	192	157	156	12	24
12K	4.0	II	76.5	82.5	280	176	252	6	24

## BOBBIN TYPE:



Please refer to SDS for handling and disposal.

## REQUIREMENTS

Shelf Life: 24 months from month of manufacture, if stored under ambient condition

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