

TORAYCA®

T800S DATA SHEET

Intermediate modulus, high tensile strength fiber, developed as a cost effective alternative to T800H. This never twisted fiber has excellent tensile composite properties and is specifically designed to meet the weight saving demand of aircraft and high performance recreational products.

FIBER PROPERTIES

	English	Metric	Test Method
Tensile Strength	850 ksi	5,880 MPa	TY-030B-01
Tensile Modulus	42.7 Msi	294 GPa	TY-030B-01
Strain	2.0 %	2.0 %	TY-030B-01
Density	0.065 lbs/in ³	1.80 g/cm ³	TY-030B-02
Filament Diameter	2.0E-04 in.	5 µm	
Yield 24K	1,446 ft/lbs	1,030 g/1000m	TY-030B-03
Sizing Type & Amount	10E	0.5 %	TY-030B-05
	Twist	Never twisted	

PRELIMINARY COMPOSITE PROPERTIES *

Tensile Strength (RT)	430 ksi	2,950 MPa
Tensile Strength (-75°F)	415 ksi	2,860 MPa
Tensile Modulus (RT)	22.5 Msi	154 GPa
Open Hole Tensile Strength	70.5 ksi	487 MPa
Open Hole Compressive Strength (RT)	42.0 ksi	291 MPa
Open Hole Compressive Strength (180°F/wet)	33.0 ksi	229 MPa
CAI	43.5 ksi	300 MPa
CILS	12.5 ksi	85 MPa

* Toray 350°F Toughened Epoxy Resin. Normalized to 60% fiber volume.

See Section 4 for Safety & Handling information. The above properties do not constitute any warranty or guarantee of values.

These values are for material selection purposes only. For applications requiring guaranteed values, contact our sales and technical team to establish a material specification document.

T800S

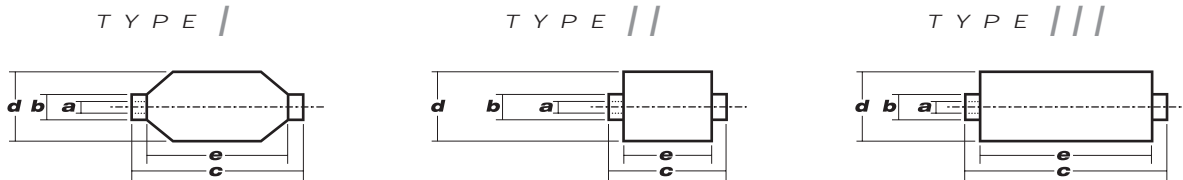
PACKAGING

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

Tow Sizes	Twist ¹	Sizing	Bobbin Net Weight (kg)	Bobbin Type ²	Bobbin Size (mm)					Spools per Case	Case Net Weight (kg)
					a	b	c	d	e		
24K	C	10E	4.0	///	76.5	82.5	280	170	252	6	24

¹ **Twist** A: Twisted yarn B: Untwisted yarn made from a twisted yarn through an untwisting process C: Never twisted yarn

² **Bobbin Type** See Diagram below



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