

T600S DATA SHEET

General purpose, never twisted, and cost effective fiber designed for industrial, recreational, automotive and infrastructure applications.

FIBER PROPERTIES

		English	Metric	Test Method
Tensile Strength		600 ksi	4,140 MPa	TY-030B-01
Tensile Modulus		33.4 Msi	230 GPa	TY-030B-01
Strain		1.8 %	1.8 %	TY-030B-01
Density		0.065 lbs/in ³	1.79 g/cm ³	TY-030B-02
Filament Diameter		2.8E-04 in.	7 μm	
Yield	12K	1,805 ft/lbs	825 g/1000m	TY-030B-03
	24K	876 ft/lbs	1,700 g/1000m	TY-030B-03
	48K	438 ft/lbs	3,400 g/1000m	TY-030B-03
Sizing Type	20C, 50C		1.0 %	TY-030B-05
& Amount	60E		0.3 %	TY-030B-05
	FOE		0.7 %	TY-030B-05
	Twist	Never twisted		

COMPOSITE PROPERTIES *

Tensile Strength	330 ksi	2,250 MPa	ASTM D-3039
Tensile Modulus	20.0 Msi	135 GPa	ASTM D-3039
Tensile Strain	--- %	--- %	ASTM D-3039
Compressive Strength	215 ksi	1,470 MPa	ASTM D-695
Flexural Strength	245 ksi	1,670 MPa	ASTM D-790
Flexural Modulus	17.5 Msi	120 GPa	ASTM D-790
ILSS	13 ksi	9 kgf/mm ²	ASTM D-2344
90° Tensile Strength	10.0 ksi	69 MPa	ASTM D-3039

* Toray 250°F 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.

T600S

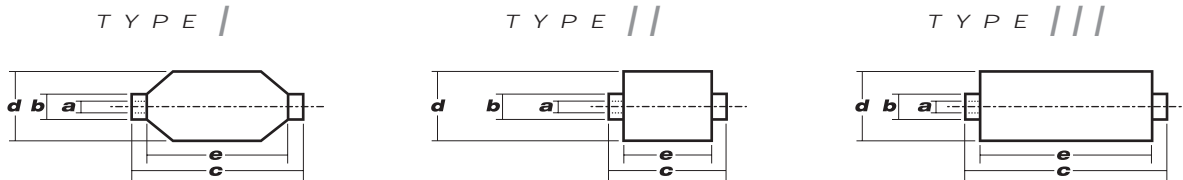
PACKAGING

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		
12K	C	20C	4.0	///	76.5	82.5	280	170	252	6	24
24K	C	50C	6.0	///	76.5	82.5	280	200	252	4	24
	C	60E	6.0	///	76.5	82.5	280	200	252	4	24
48K	C	50C	6.0	///	76.5	82.5	280	200	252	4	24
	C	FOE	6.0	///	76.5	82.5	280	200	252	4	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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