

M30S DATA SHEET

Cost effective alternative to T800H. Suitable for applications which are not critical to composite transverse properties. This never twisted fiber is mainly used in lightweight tensile strength driven applications such as pressure vessels.

FIBER PROPERTIES

		<i>English</i>	<i>Metric</i>	<i>Test Method</i>
Tensile Strength		796 ksi	5,490 MPa	TY-030B-01
Tensile Modulus		42.7 Msi	294 GPa	TY-030B-01
Strain		1.9 %	1.9 %	TY-030B-01
Density		0.062 lbs/in ³	1.73 g/cm ³	TY-030B-02
Filament Diameter		2.0E-04 in.	5 μm	
Yield	18K	1,960 ft/lbs	760 g/1000m	TY-030B-03
Sizing Type & Amount	50C		1.0 %	TY-030B-05
	Twist	Never twisted		

COMPOSITE PROPERTIES *

Tensile Strength	435 ksi	2,990 MPa	ASTM D-3039
Tensile Modulus	25.5 Msi	175 GPa	ASTM D-3039
Tensile Strain	1.6 %	1.6 %	ASTM D-3039
Compressive Strength	200 ksi	1,370 MPa	ASTM D-695
Flexural Strength	190 ksi	1,320 MPa	ASTM D-790
Flexural Modulus	21.0 Msi	145 GPa	ASTM D-790
ILSS	13 ksi	9 kgf/mm ²	ASTM D-2344
90° Tensile Strength	7.5 ksi	51 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.

M30S

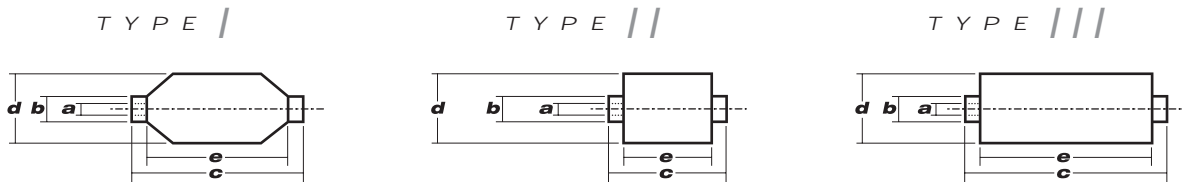
PACKAGING

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		
18K	C	50C	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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