

TORAYCA®

M30G DATA SHEET

Improved transverse composite properties over M30S, with lower tensile strength.
This never twisted fiber is used in sporting goods applications.

FIBER PROPERTIES

		<i>English</i>	<i>Metric</i>	<i>Test Method</i>
Tensile Strength		739 ksi	5,100 MPa	TY-030B-01
Tensile Modulus		42.7 Msi	294 GPa	TY-030B-01
Strain		1.7 %	1.7 %	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	11E		0.5 %	TY-030B-05
	Twist	Never twisted		

COMPOSITE PROPERTIES *

Tensile Strength	390 ksi	2,695 MPa	ASTM D-3039
Tensile Modulus	25.0 Msi	170 GPa	ASTM D-3039
Tensile Strain	1.5 %	1.5 %	ASTM D-3039
Compressive Strength	215 ksi	1,470 MPa	ASTM D-695
Flexural Strength	215 ksi	1,470 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	9.0 ksi	62 MPa	ASTM D-3039

* Toray 250°F Epoxy Resin. Normalized to 60% fiber volume.

M30G

COMPOSITE PROPERTIES * *

Tensile Strength	390 ksi	2,700 MPa	ASTM D-3039
Tensile Modulus	23.0 Msi	160 GPa	ASTM D-3039
Tensile Strain	1.5 %	1.5 %	ASTM D-3039
Compressive Strength	230 ksi	1,570 MPa	ASTM D-695
Compressive Modulus	--- Msi	--- GPa	ASTM D-695
In-Plane Shear Strength	--- ksi	--- MPa	ASTM D-3518
ILSS	--- ksi	--- kgf/mm ²	ASTM D-2344
90° Tensile Strength	10.0 ksi	70 MPa	ASTM D-3039

** Toray Semi-Toughened 350°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.

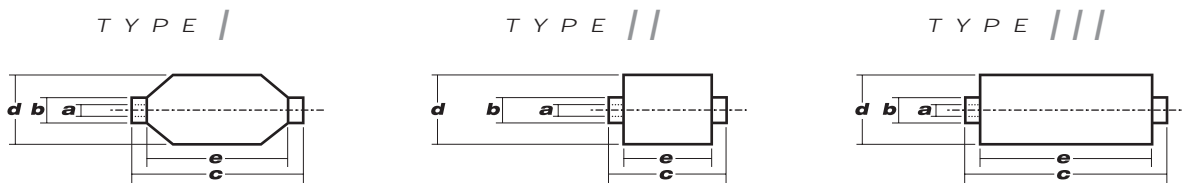
PACKAGING

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	11E	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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