

TORAYCA™ T1100S Intermediate Modulus Carbon Fiber Data Sheet



Toray Composite Materials America, Inc.

PRODUCT NOTES

Next-generation intermediate modulus fiber with excellent processability in traditional manufacturing methods (filament winding). Manufactured in the U.S.

PRODUCT DESIGNATION

FIBER TYPE	TWIST	FILAMENT COUNT	SIZING TYPE	SUFACE TREATMENT	SIZING AMOUNT
T1100S	C*	12,000	5	0	C

* C: Never twisted

RESIN SYSTEM COMPATIBILITY

SIZING TYPE & AMOUNT	RESIN SYSTEM COMPATIBILITY	METHOD
50C (1.0%)	Epoxy, phenolic, polyester, vinyl ester	TY-030B-05

FIBER PROPERTIES

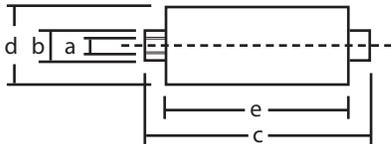
PROPERTY	ENGLISH	METRIC	METHOD
Tensile Strength	1,017 Ksi	7,000 MPa	TY-030B-01
Tensile Modulus	47.0 Msi	324 GPa	TY-030B-01
Strain at Failure		2.2%	TY-030B-01
Density		1.79 g/cm ³	TY-030B-02
Filament Diameter		5 μm	
Yield	12K	505 g/1000m	TY-030B-03
	24K	1,010 g/1000m	TY-030B-03

PACKAGING

The table below summarizes the two sizes, twists, sizing types, 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		
12K	2.0	III	76.5	82.5	280	125	252	12	24
24K	4.0	III	76.5	82.5	280	160	252	6	24

Bobbin Type: Type III



Please refer to SDS for handling and disposal.

The data listed herein are lot averages, for reference purposes only, and are offered AS-IS without warranty. The results are not intended for specification purposes. WARNING: This document may contain technical data whose export is restricted by the Export Administration Act of 1979, as amended, Title 50, U.S.C., App.2401 et seq. Violations of these export laws are subject to severe criminal penalties.

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