

# TORAYCA™ T1000G Intermediate Modulus Carbon Fiber Data Sheet



Toray Composite Materials America, Inc.

## PRODUCT NOTES

Legacy intermediate modulus fiber with excellent processability in traditional manufacturing methods (filament winding). Manufactured in Japan.

## PRODUCT DESIGNATION

FIBER TYPE	TWIST	FILAMENT COUNT	SIZING TYPE	SUFACE TREATMENT	SIZING AMOUNT
T1000G	B*	12,000	4	0	D

\* B: Untwisted

## RESIN SYSTEM COMPATIBILITY

SIZING TYPE & AMOUNT	RESIN SYSTEM COMPATIBILITY	METHOD
40D (0.7%)	Epoxy	TY-030B-05

## FIBER PROPERTIES

PROPERTY	ENGLISH	METRIC	METHOD
Tensile Strength	924 Ksi	6,370 MPa	TY-030B-01
Tensile Modulus	43.0 Msi	294 GPa	TY-030B-01
Strain at Failure		2.2%	TY-030B-01
Density		1.80 g/cm <sup>3</sup>	TY-030B-02
Filament Diameter		5 μm	
Yield	12K	485 g/1000m	TY-030B-03

## FUNCTIONAL PROPERTIES

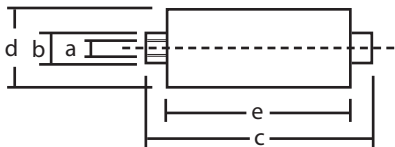
PROPERTY	VALUE
CTE	-0.6 α ·10 <sup>-6</sup> /°C
Specific Heat	0.752 J/g ·°C
Thermal Conductivity	0.105 J/cm ·s·°C
Electric Resistivity	1.4 x 10 <sup>-3</sup> Ω·cm
Chemical Composition: Carbon	>95%
Na + K	<50 ppm

## 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	140	252	12	24

### Bobbin Type: Type III



Please refer to SDS for handling and disposal.

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