

T1000G

INTERMEDIATE MODULUS CARBON FIBER

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

PRODUCT DESIGNATION

T1000G	C	12,000	4	0	D
Fiber Type	Twist*	Filament Count	Sizing Type	Surface Treatment	Sizing Amount

*C: Never Twisted

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 ³	TY-030B-02
Filament Diameter		5 μm	
Yield	12K	485 g/1000m	TY-030B-03

RESIN SYSTEM COMPATIBILITY

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

FUNCTIONAL PROPERTIES

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

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	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

