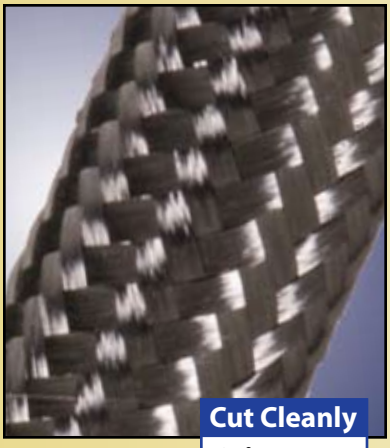
SPECIALTY
Technical Data Sheet

CARBON FIBER

- **Ideal For Strong Lightweight Tubular Structures**
- **Variety Of Diameters, Wall Thicknesses, And Braid Patterns**
- **Fast Turnaround On Custom Requirements**

	Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/ 100′
				Min.	Max.	Bulk Spool	Shop Spool		
CARBON LIGHT	1/4″	CAL0.25BK	0.013″	1/8″	5/16″	500′	100′	Black	0.38
	1/2″	CAL0.50BK	0.013″	1/4″	5/8″	250′	50′	Black	0.75
	3/4″	CAL0.75BK	0.013″	5/16″	7/8″	250′	50′	Black	1.21
	1″	CAL1.00BK	0.013″	3/8″	1 1/16″	200′	50′	Black	1.51
	1 1/4″	CAL1.25BK	0.013″	1/2″	1 1/2″	125′	25′	Black	1.81
	1 1/2″	CAL1.50BK	0.013″	5/8″	1 3/4″	100′	25′	Black	2.26
	2″	CAL2.00BK	0.013″	3/4″	2 3/16″	100′	25′	Black	2.72
CARBON MEDIUM	1/2″	CAN0.50BK	0.020″	1/4″	5/8″	250′	50′	Black	1.21
	3/4″	CAN0.75BK	0.020″	5/16″	7/8″	250′	50′	Black	1.81
	1″	CAN1.00BK	0.020″	7/16″	1 1/16″	200′	50′	Black	2.42
	1 1/4″	CAN1.25BK	0.020″	9/16″	1 1/2″	125′	25′	Black	3.02
	1 1/2″	CAN1.50BK	0.020″	3/4″	1 3/4″	100′	25′	Black	3.62
	2″	CAN2.00BK	0.020″	7/8″	2 3/16″	100′	25′	Black	4.52
	2 1/2″	CAN2.50BK	0.020″	1 1/6″	3″	100′	25′	Black	5.43
CARBON HEAVY	3/4″	CAH0.75BK	0.030″	3/8″	7/8″	250′	50′	Black	2.72
	1″	CAH1.00BK	0.030″	1/2″	1 1/16″	200′	50′	Black	3.62
	1 1/4″	CAH1.25BK	0.030″	11/16″	1 1/2″	125′	25′	Black	4.83
	1 1/2″	CAH1.50BK	0.030″	13/16″	1 3/4″	100′	25′	Black	5.43
	2″	CAH2.00BK	0.030″	1″	2 3/16″	100′	25′	Black	7.25
	2 1/2″	CAH2.50BK	0.030″	1 1/4″	3″	100′	25′	Black	9.09
	3″	CAH3.00BK	0.030″	1 1/2″	3 1/2″	50′	25′	Black	10.87



Cut Cleanly
Scissors

Material
Polyacrylonitrile (PAN)

Grade
CAL, CAN, CAH

Wall Thickness
.013″ - .030″

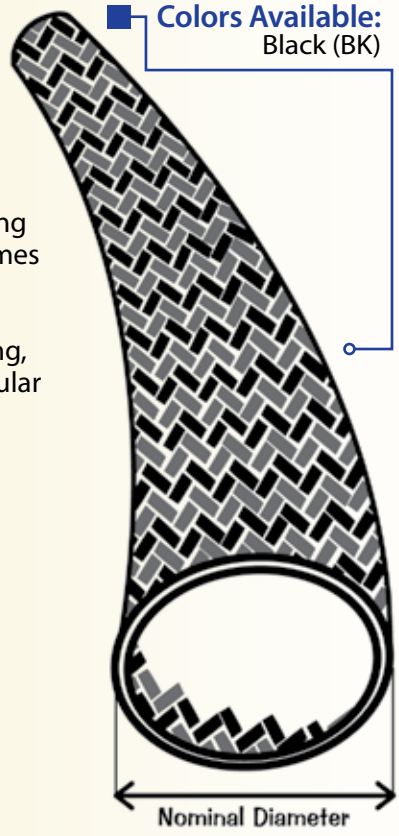
Drawing Number
TF001CAL-WD

Carbon Fiber Sleeve For High Strength Tubular Structures

Fabricators know that resin coated carbon fiber structures are stronger and lighter than virtually any other construction types. Carbon Fiber (CA) construction techniques are appearing in everything from state-of-the-art military and aerospace airframes to hockey sticks, fishing rods and model cars.

Our Carbon Fiber braided sleeving provides a strong, biaxial carbon fiber matrix for stiff, lightweight tubular structures up to 3″ in diameter without seams or overlap. The tightly braided thick flexible sleeving will form itself to accommodate elliptical or asymmetrical profiles and provide the full coverage required for radial stability and torsional strength or hand tools.

Carbon fiber constructions can be cut, drilled, sanded and tooled with commonly available power or hand tools. Can be painted or left with the braid structure exposed.



TECHFLEX
Braided Sleeving Products
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SPECIALTY
Technical Data Sheet

CARBON FIBER

ABRASION

Abrasion Resistance
Medium

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
70°F

Humidity
59%

Visible Moderate Wear
20 Test Cycles

Material Completely Worn Through
Material Destroyed
40 Test Cycles

Pre-Test Weight
3,450.9 mg

Post-Test Weight
2,551.7 mg

Test End Loss Of Mass Point Of Destruction
899.2 mg

FLAMMABILITY

Rating_____Non Flammable

Chemical Resistance

1=*No Effect* 4=*More Affected*
2=*Little Effect* 5=*Severely Affected*
3=*Affected*

Esters/Keytones _____1

UV Light _____2

PHYSICAL PROPERTIES

Monofilament Diameter_____NA
ASTM D-204

Recommended Cutting_____Scissor

Colors_____1

Wall Thickness_____.013-.030

Specific Gravity *ASTM D-792*__1.75-1.85

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