

TECHNICAL
DATA SHEET

TC38-48K

Standard Modulus
TAIRYFIL Carbon Fiber

- TAIRYFIL carbon fiber produced from polyacrylonitrile-based precursor.
- TC38-48K is aimed at addressing the trend of larger wind turbines in offshore wind filed. Its higher tensile modulus of 38MSI/262GPa accommodates longer blades and provides superior stiffness.

Fiber Properties

Tow sizes	Yield (g/1000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm³)	Sizing Type	Sizing Content (%)
		Ksi	MPa	Msi	GPa				
48K	3200	670	4620	38	262	1.8	1.8	Epoxy	1.0-1.6

1. Test Method : JIS-7608
2. Carbon fiber could be produced with different sizing (compatible with thermoplastic resin).
3. The sizing content could be customized.

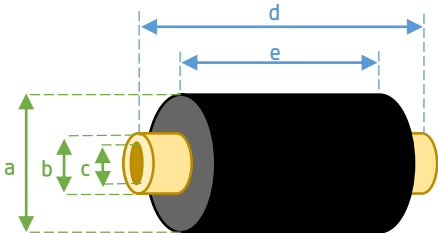
CFRP Properties (CF/Epoxy Pultrusion Plate)

Tensile Strength	Tensile Modulus	Flexural Strength	Flexural Modulus	Compression Strength	Compression Modulus	SBS
MPa	GPa	MPa	GPa	MPa	GPa	MPa
2265	148	1600	130	1200	135	75

1. Test Method : ASTM D3039, ASTM D790, ASTM D6641 and ASTM D2344
2. Fiber volume fraction:60%

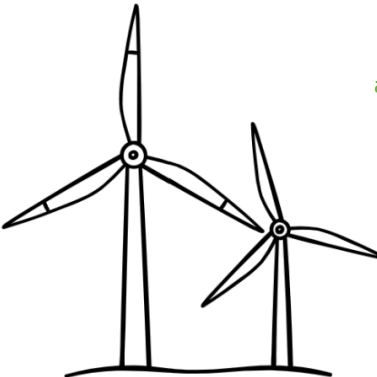
Packing Standard

Type	Tow sizes	Fiber Weight (kg)	Bobbin Size (mm)					Bobbin Per Case	Case Net Weight (kg)
			a	b	c	d	e		
TC38-48K	48K	8	205-220	84.8-85.2	76.8-77.2	275-285	245-265	3	24



Dimensions are defined as follow :

- a = diameter of bobbin
- b = external diameter of tube
- c = internal diameter of tube
- d = length of tube
- e = length of bobbin



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