

**TECHNICAL
DATA SHEET**

TC42S

Intermediate Modulus TAIRYFIL Carbon Fiber

- TAIRYFIL carbon fiber produced from polyacrylonitrile-based precursor.
- High strength, intermediate modulus, never twisted carbon fiber available with excellent processability for different applications.

Fiber Properties

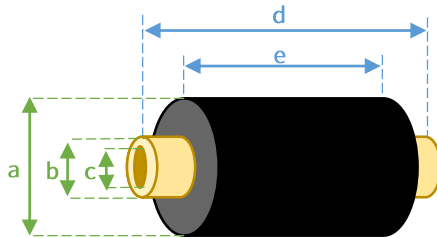
Tow sizes	Yield (g/1000m)	Tensile Strength		Tensile Modulus		Elongation (%)	Density (g/cm ³)	Sizing Type	Sizing Content (%)
		Ksi	MPa	Msi	GPa				
12K	440	825	5690	42	290	2.0	1.81	Epoxy	1.0-1.6
24K	880								

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.

Packing Standard

- 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



Type	Tow sizes	Fiber Weight (kg)	Bobbin Size (mm)					Bobbin Per Case	Case Net Weight (kg)
			a	b	c	d	e		
TC42S	12K	2.2	132-142	84.8-85.2	76.8-77.2	275-285	245-260	12	26.4
	24K	4.4	165-175	84.8-85.2	76.8-77.2	275-285	245-260	6	26.4



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