

# Carbon Fiber CRSTY49S-12K

## Product Data Sheet

### Characteristics of Carbon fiber CRSTY49S-12K

- \* Yarn of CRSTY49S-12K is a PAN (Polyacrylonitrile ) precursor of carbon fiber. It is characterized by High strength, Low weight, Good looking, High modulus. It is much stronger than steel in terms of strength-to-weight ratio. The weight of carbon fiber is only about one-fifth of that of steel. CRSTY49S-12K has a high resistance to temperature change.
- \* Weaving is possible by plain and twill structu
- \* It is not twist yarn.



### Application

- \* With excellent mechanical properties, CRSTY49S-12K could meet the requirements of every single application field like Aviation-Aerospace, Pressure vessel, Composite, Automobile, Rail Transit, Architecture & Bridge etc.

### Properties

#### CRSTY49S-12K

Characteristics	Unit	Specification	Test Method
Tensile Strength	GPa(kgf/cm <sup>2</sup> )	4.9	GB/T3362-2017
Tensile Modulus	GPa(kgf/cm <sup>2</sup> )	230	GB/T3362-2017
Strain	%	2.1	GB/T30019-2013
Density	g/cm <sup>3</sup>	1.79	GB/T30019-2013
Linear Density	g/kg	800	GB/T3362-2017
Sizing Type		Epoxy	
Sizing Amount	%	1.00%	
Twist		Never	

### Packing

Tow	Bobbin (net KG)	Bobbin Size (mm)					Sppls Per case	Case Net weight KG
		a	b	c	d	e		
12K	4	76	82	280	155	260	6	24

