

Carbon Fiber CRSTY45S-3K

Product Data Sheet

Characteristics of Carbon fiber CRSTY45S-3K

- * Yarn of CRSTY-45S-3K 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.
CRSTY45S-3K has a high resistance to temperature change.
- * Weaving is possible by plain and twill structu
- * It is not twist yarn.



Application

- * Exterior and interior fabric for sports equipment, automobiles, furniture decoration, etc.
- * Specuially CRSTY45S-3K could meet the requirement of the wind turbine blade.

Properies

CRSTY45S-3K

| Characteristics | Unit | Specification | Test Method |
|------------------|---------------------------|---------------|----------------|
| Tensile Strength | GPa(kgf/cm ²) | 4 | GB/T3362-2017 |
| Tensile Modulus | GPa(kgf/cm ²) | 230 | GB/T3362-2017 |
| Strain | % | 1.7 | GB/T30019-2013 |
| Density | g/cm ³ | 1.79 | GB/T30019-2013 |
| Linear Density | g/kg | 198 | GB/T3362-2017 |
| Sizing Type | | Epoxy | |
| Sizing Amount | % | 0.6~0.8% | |
| Twist | | Never | |

Packing

| Tow | Bobbin (net KG) | Bobbin Size (mm) | | | | | Sppls Per case | Case Net weight KG |
|-----|--------------------|------------------|----|-----|-----|-----|-------------------|-----------------------|
| | | a | b | c | d | e | | |
| 3K | 1 | 76 | 82 | 280 | 106 | 261 | 15 | 15 |

