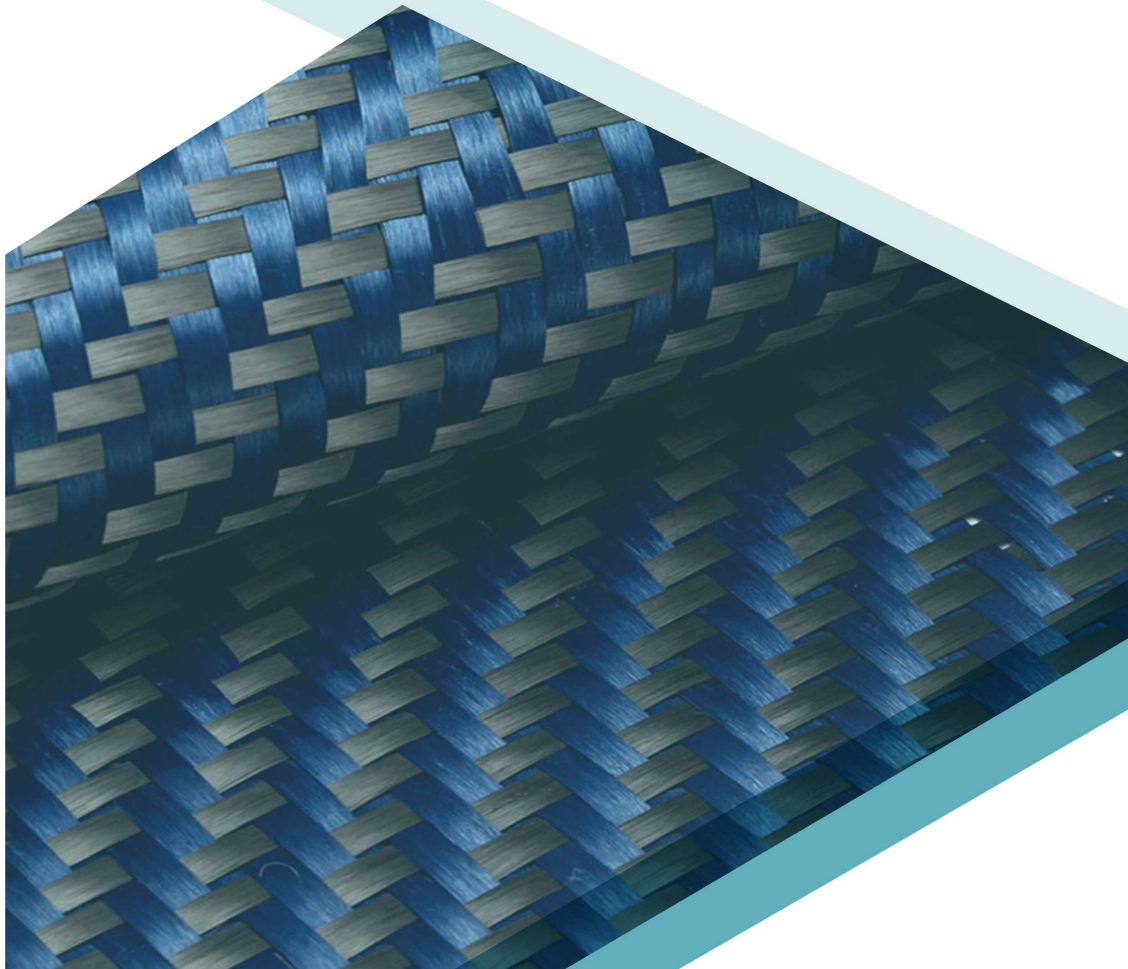
JEELY

# 金湖杰力体育用品有限公司

## CARBON FIBER



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# CATALOG

碳纤维双向编织布
CARBON FIBER BI-DIRECTION FABRIC

芳纶纤维编织布
ARAMID FIBER FABRIC

玄武岩纤维编织布
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碳纤维单向编织布
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芳碳混编布
CARBON-ARAMID HYBRID FABRIC

预浸布
PREPREG FABRIC

# CARBON FIBER

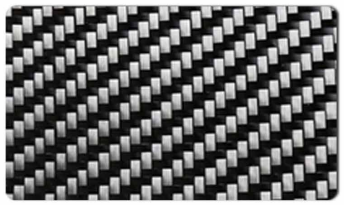
碳纤维
高强度 高模量的新型纤维材料
HIGH STRENGTH HIGH MODULUS NEW FIBER MATERIAL

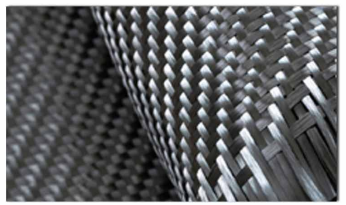
碳纤维是一种以聚丙烯腈为原料，经预氧化、碳化、石墨化工艺而制得的含碳量大于95%的特种纤维。比重不到钢的1/4，比强度是铁的20倍，不仅具有碳材料的固有特性，又兼备纺织纤维的柔软可加工性，具有耐腐蚀、耐疲劳、高强度、高模量等特性

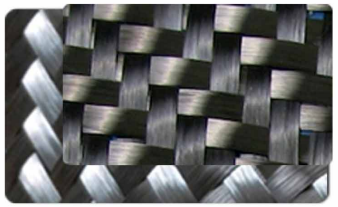
Carbon fiber is a special fiber with carbon content above 95% which based as PAN produced through pre-oxidation,carbonization and graphitization. Its density is less than1/4 of steel while strength is 20 times if steel. It not only has characteristics of carbon material but also has workability,flexibility of textile fibers

## 碳纤维双向编织布
## CARBON FIBER BI-DIRECTION FABRIC

It is weaves by 1K,3K6K,12K carbon fabric,weave pattern including plain twill satin.Its application mainly including aerospace,auto parts,sports equipment,building einforcements,decorations


J3K-T-200


J6K-T-320


J12K-T-400

| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡) |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| J1K-P-120 | 1K | 1K | Plain | 9 | 9 | 100-3000 | 0.16 | 120 |
| J1K-T-120 | 1K | 1K | Twill | 9 | 9 | 100-3000 | 0.16 | 120 |
| J3K-P-200 | 3K | 3K | Plain | 5 | 5 | 100-3000 | 0.26 | 200 |
| J3K-T-200 | 3K | 3K | Twill | 5 | 5 | 100-3000 | 0.26 | 200 |
| J3K-P-240 | 3K | 3K | Plain | 6 | 6 | 100-3000 | 0.32 | 240 |
| J3K-T-240 | 3K | 3K | Twill | 6 | 6 | 100-3000 | 0.32 | 240 |
| J6K-P-320 | 6K | 6K | Plain | 4 | 4 | 100-3000 | 0.42 | 320 |
| J6K-T-320 | 6K | 6K | Twill | 4 | 4 | 100-3000 | 0.42 | 320 |
| J6K-P-360 | 6K | 6K | Plain | 4.5 | 4.5 | 100-3000 | 0.48 | 360 |
| J6K-T-360 | 6K | 6K | Twill | 4.5 | 4.5 | 100-3000 | 0.48 | 360 |
| J12K-P-400 | 12K | 12K | Plain | 2.5 | 2.5 | 100-3000 | 0.53 | 400 |
| J12K-T-400 | 12K | 12K | Twill | 2.5 | 2.5 | 100-3000 | 0.53 | 400 |
| J12K-P-480 | 12K | 12K | Plain | 3 | 3 | 100-3000 | 0.64 | 480 |
| J12K-T-480 | 12K | 12K | Twill | 3 | 3 | 100-3000 | 0.64 | 480 |

# ARAMID FIBER

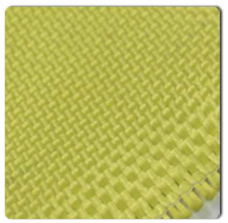
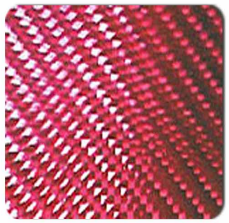
新型超高强度、高模量合成纤维
ANEW SYNTHETIC FIBER WITH HIGH STRENGTH & MODULUS

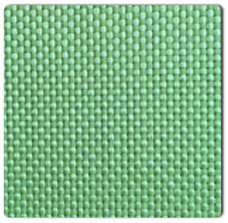
芳纶全称“聚对苯二甲酰对苯二胺”是一种新型超高强度、高模量的合成纤维。重量仅为钢的 1/5，强度是钢的 5-6 倍，模量为钢的 2-3 倍，韧性是钢的 2 倍，手感柔软，可纺性好，具有良好的绝缘性、抗老化性和阻燃耐热性等

The full name of aramid is called PPTA.
It is a new synthetic fiber with high strength & modulus. Its weight is 1/5 of steel,strength is 5-6 times of it, modulus is 2-3 times of steel,tenacity is 2 times of it. It has good performance of insulation,heat resistance, aging resistance, flame retardant and spinnability

## 芳纶纤维编织布
## ARAMID FIBER FABRIC

It is weaved mainly by para-aramid fiber 200D\400D\600D\800D\1000D\1500D 3000D. Weave pattern including plain, twill, satin. Its application mainly including aerospace, bulletproof vest, electromechanic equipment, building reinforcement auto and sports equipment



| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡） |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| J200D-P-50 | 200D | 200D | Plain | 13.5 | 13.5 | 100-3000 | 0.08 | 50 |
| J400D-P-80 | 400D | 400D | Plain | 12 | 12 | 100-3000 | 0.14 | 80 |
| J600D-P-100 | 600D | 600D | Plain | 8 | 8 | 100-3000 | 0.15 | 100 |
| J800D-P-115 | 800D | 800D | Plain | 7 | 7 | 100-3000 | 0.16 | 115 |
| J1000D-P-140 | 1000D | 1000D | Plain | 6 | 6 | 100-3000 | 0.22 | 140 |
| J1000D-P-160 | 1000D | 1000D | Plain | 7 | 7 | 100-3000 | 0.24 | 160 |
| J1000D-T-160 | 1000D | 1000D | Twill | 7 | 7 | 100-3000 | 0.24 | 160 |
| J1000D-P-200 | 1000D | 1000D | Plain | 9 | 9 | 100-3000 | 0.26 | 200 |
| J1000D-T-200 | 1000D | 1000D | Twill | 9 | 9 | 100-3000 | 0.26 | 200 |
| J1500D-P-170 | 1500D | 1500D | Plain | 5 | 5 | 100-3000 | 0.23 | 170 |
| J1500D-P-200 | 1500D | 1500D | Plain | 6 | 6 | 100-3000 | 0.26 | 200 |
| J1500D-T-220 | 1500D | 1500D | Twill | 6.5 | 6.5 | 100-3000 | 0.28 | 220 |
| J3000D-P-300 | 3000D | 3000D | Plain | 4.5 | 4.5 | 100-3000 | 0.40 | 300 |
| J3000D-P-450 | 3000D | 3000D | Plain | 6.5 | 6.5 | 100-3000 | 0.70 | 450 |

# BASALT FIBER FABRIC

## 玄武岩纤维

新型无机环保绿色高性能纤维材料
A NEW STYLE INORGANIC ENVIRONMENTAL FRIENDLY HIGH PERFORMANCE FIBER

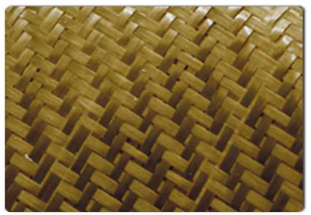
玄武岩纤维，经由玄武岩石料高温拉制而成，性能介于高强度 S 玻纤和无碱 E 玻纤之间，是一种绿色环保材料。连续纤维不仅稳定性好，而且还具有电绝缘性、抗腐蚀性、抗燃烧性、耐高温性、抗氧化性等优异性能，性价比好

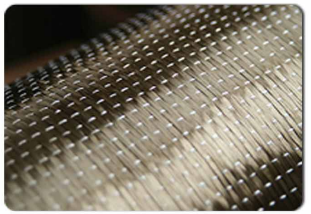
Basalt fiber is made of basalt by pultrusion under high temperature. It is an environmental friendly high performance fiber which performance is between S-fiber glass and E-fiber glass

Its continuous fibers has not only good stability, but also has electrical insulation, corrosion resistance, burn resistance, high temperature resistance, oxidation resistance and excellent cost performance

## 玄武岩纤维编织布
## BASALT FIBER FABRIC

It Is weaved by 33tex,80tex,100tex,300tex,800tex…
basalt fiber as material, weave pattern including plain, twill,satin.
Its application mainly including tiber-reinforced composite materials, friction materials, shipbuilding materials,insulation materials, automotive industry, high temperature filtration fabrics, etc





| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡) |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| JL-P-100 | 35TEX | 35TEX | Plain | 15 | 14 | 100-3000 | 0.10 | 100 |
| JL-P-200 | 100TEX | 100TEX | Plain | 10 | 10 | 100-3000 | 0.23 | 200 |
| JL-P-300 | 300TEX | 300TEX | Plain | 5 | 5 | 100-3000 | 0.30 | 300 |
| JL-T-300 | 300TEX | 300TEX | Twill | 5 | 5 | 100-3000 | 0.30 | 300 |
| JL-P-320 | 300TEX | 300TEX | Plain | 6 | 5.5 | 100-3000 | 0.32 | 320 |
| JL-P-430 | 300TEX | 300TEX | Plain | 7 | 7.5 | 100-3000 | 0.37 | 430 |
| JL-P-640 | 800TEX | 800TEX | Plain | 5 | 3 | 100-3000 | 0.58 | 640 |
| JL-T-900 | 750TEX | 750TEX | Twill | 6 | 6 | 100-3000 | 0.76 | 900 |

# 聚乙烯纤维

目前世界上比强度、比模量最高的纤维
UHMWPE FIBER-THE FIBER WITH THE BEST SPECIFIC STRENGTH SPECIFIC MODULUS AMONG OTHERS IN THE WORLD UP TO THE PRESENT

超高分子量聚乙烯纤维，又称高强高模聚乙烯纤维，是分子量在100万-500万的聚乙烯所纺出的纤维，比强度是同等截面钢丝的十多倍，比模量仅次于特级碳纤维具有高强度、高模量、低断裂伸长、抗沖击、抗切割、 抗紫外线辐射、耐化学腐蚀、耐磨性等特性

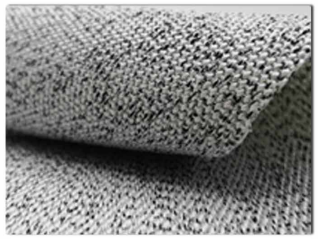
Ultra-high molecular weight polyethylene fiber, also known as high strength and high modulus polyethylene fiber.It is made by molecular weight of 1,000,000-5,000,000 polyethylene which its specific strength is ten times more than steel and specific modulus is only less than super carbon fiber.It has good performance of high strength,high modulus,low elongation at break, impact resistance,cutting resistance, anti-ultraviolet radiation, chemical resistance abrasion resistance and other characteristics

# 聚乙烯纤维布
## HUMWPE FABRIC

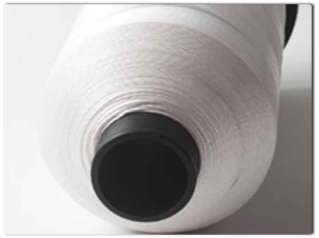
以200D 400D 600D 800D 1000D 1500D 3000D等为原材料进行平纹、斜纹编织，产品主要应用于防弹衣、防弹头盔、轻质装甲体、育器材、绳索、缆绳、船帆、滤材等

It is made by 200D,400D,600D,800D, 1000D,1500D,3000D UHMWPE fiber as material with weave style plain, twill and satin. Its application mainly including body armor, bulletproof helmet, light armor, sports equipment, ropes, cables,sails, filter, etc

| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡) |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| J200D-PE-100 | 200D | 200D | Plain | 22 | 17.5 | 100-3000 | 0.21 | 100 |
| J400D-PE-140 | 400D | 400D | Plain | 14 | 14 | 100-3000 | 0.25 | 140 |
| J600D-PE-200 | 600D | 600D | Plain | 15.5 | 12 | 100-3000 | 0.42 | 200 |
| J800D-PE-170 | 800D | 800D | Plain | 9.5 | 8.5 | 100-3000 | 0.39 | 170 |
| J1000D-PE-240 | 1000D | 1000D | Plain | 10 | 9 | 100-3000 | 0.48 | 240 |
| J1500D-PE-345 | 1500D | 1500D | Plain | 10 | 7.5 | 100-3000 | 0.72 | 345 |
| J3000D-PE-410 | 3000D | 3000D | Plain | 3 | 3 | 100-3000 | 0.88 | 410 |





## 碳纤维单向编织布
## UNIDIRECTIONAL CARBON FIBER FABRIC

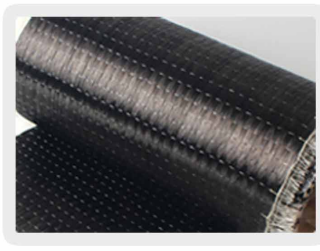
多以12K为原材料进行编织，常规型号有200G，300G具有高强度、高模量、自重轻、易施工、抗高温、抗酸碱腐蚀、不受结构外形限制等优势，多用于裂缝修补封护建筑加固补强、抗震等方面

It mainly made by 12K carbon fiber with ordinary weight 200gsm and 300gsm. It has good performance of high strength, high modulus, light weight, easy construction, high temperature resistance, anti-acid corrosion, and other advantages. Its used mainly in crack repair, bullding reintorcement, reinforcement against earthquake, etc

## 玄武岩纤维单向编织布
## UNIDIRECTIONAL BASALT FIBER FABRIC

多以800tex为原材料进行编织，常规型号有300G、400G具有化学性稳定、耐高温、抗紫外线、环保无污染等优势，性价比较高，多用于土木工程、建筑加固、补强修复、防火工程等方面

It mainly made by 800tex basalt fiber as material with ordinary weight 300gsm and 400gsm. It has good performance of chemical stability, high temperature resistance, UV resistance, environmental treindly and good cost performance. Its application mainly including civil engineering, construction reinforcement,reinforcement repair, tire protection engineering, etc

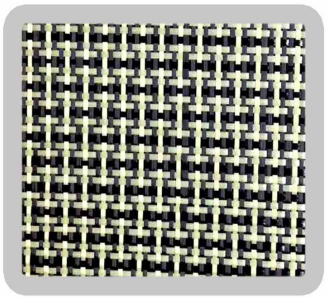


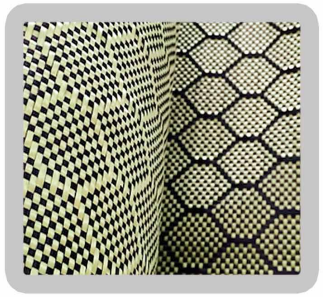
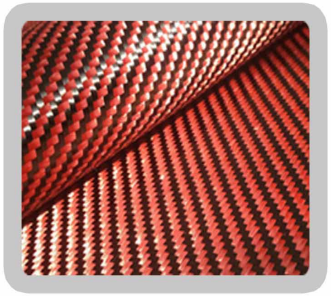
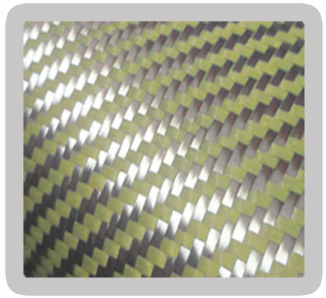
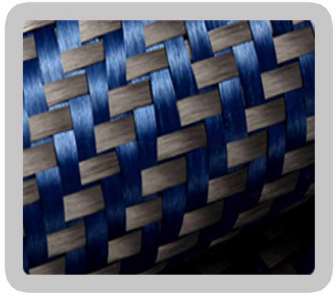


| Fabric Type | Fabric Grade | Tensile Strength (Mpa) | Tensile Modulus (Gpa) | Elongatio (%) | Thickness (mm) | Weight（g/㎡） |
|---|---|---|---|---|---|---|
| J12K-UD200 | Ⅰ | ≥3400 | ≥240 | ≥1.7 | 0.111 | 200 |
| J12K-UD200 | Ⅱ | ≥3000 | ≥210 | ≥1.5 | 0.111 | 200 |
| J12K-UD300 | Ⅰ | ≥3400 | ≥240 | ≥1.7 | 0.167 | 300 |
| J12K-UD300 | Ⅱ | ≥3000 | ≥210 | ≥1.5 | 0.167 | 300 |

| Fabric Type | Fabric Yarn | Tensile Strength (Mpa) | Tensile Modulus (Gpa) | Elongatio (%) | Thickness (mm) | Weight（g/㎡） |
|---|---|---|---|---|---|---|
| J-BF-UD300 | 800tex | ≥2800 | ≥85 | ≥2.0 | 0.115 | 300 |
| J-BF-UD400 | 800tex | ≥2800 | ≥85 | ≥2.0 | 0.145 | 400 |

# 芳碳混编布
## CARBON-ARAMID HYBRID FABRIC



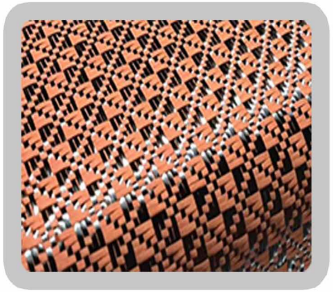





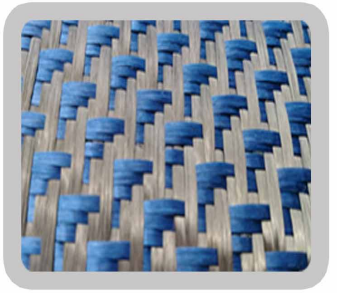
| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡） |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| J1K-P-100 | 1K | 400D | Plain | 9 | 9 | 100-3000 | 0.11 | 100 |
| J3K-P-200 | 3K | 1500D | Plain | 5 | 5 | 100-3000 | 0.27 | 200 |
| J3K-T-200 | 3K | 1500D | Twill | 5 | 5 | 100-3000 | 0.27 | 200 |

# 提花布
## JACQUARD FABRIC

运用创新的设计想法，使熟知的复合材料展现出不同的一面。
运用其特性的同时，增加其外观的可造性及美观性

Using innovative design ideas in order to make the well-known
composite materials showing different side. Using of its characteristics





| Fabric Type | Fabric Yarn | | Weave | Fabric Count（10mm） | | Width(mm) | Thickness(mm) | Weight(g/㎡） |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | Warp | Weft | | | |
| J3K-J200F | 3K | 3K | Jacquard | 5 | 6 | 100-3000 | 0.30 | 220 |
| J3K-AJ220F | 3K | 1500D | Jacquard | 5 | 6 | 100-3000 | 0.30 | 220 |
| J3K-J200G | 3K | 3K | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |
| J3K-AJ200G | 3K | 1500D | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |
| J3K-J200X | 3K | 3K | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |
| J3K-AJ200X | 3K | 1500D | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |
| J3K-J200L | 3K | 3K | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |
| J3K-AJ200L | 3K | 1500D | Jacquard | 5 | 5 | 100-3000 | 0.28 | 200 |

# 预浸布
## PREPREG FABRIC

主要产品包括：
单向碳纤维预浸布(24T、30T、36T、40T）碳纤维编织预浸布(1K、3K、6k, 12K)各类混编预浸布等.单向纤维重量可30g/㎡到600g/㎡，树脂含量均匀度控制在0.5%以内，纤维重量与树脂含量可按照客户要求进行生产



The main products include: unidirectional carbon fiber prepreg(24T, 30T, 36T, 40T), and carbon fiber woven prepreg (1k,3K,6k,12K),all kinds of hybrid prepreg and so on.Unidirectional fabric weight is from 30g / m' to 600g / m, the resin content uniformity controlled within 0.5%. Weight of the fiber and the resin content can be produced according to customer requirements.

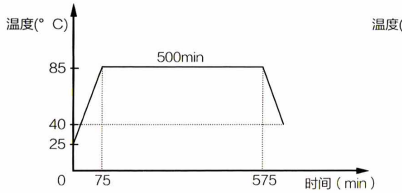
| Fabric Type | Dry weight（g/㎡） | Resin Content (%) | Total Weight（g/㎡） | Thickness (mm) | Width（mm） |
|---|---|---|---|---|---|
| J-USN30 | 30 | 55 | 76 | 0.03 | 1000 |
| J-USN50 | 50 | 45 | 91 | 0.06 | 1000 |
| J-USN75 | 75 | 38 | 121 | 0.08 | 1000 |
| J-USN100 | 100 | 33 | 150 | 0.10 | 1000 |
| J-USN125 | 125 | 33 | 187 | 0.13 | 1000 |
| J-USN150 | 150 | 33 | 224 | 0.15 | 1000 |
| J-USN175 | 175 | 33 | 261 | 0.18 | 1000 |
| J-USN200 | 200 | 33 | 298 | 0.20 | 1000 |
| J-USN225 | 225 | 33 | 337 | 0.23 | 1000 |
| J-USN250 | 250 | 33 | 374 | 0.25 | 1000 |

# 碳纤维编织预浸布
## CARBON FIBER PREPREG FABRIC

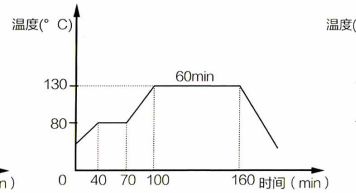
预浸料贮存期
在22℃（常温）条件下，贮行期为1个月
在0℃条件下，贮存期为3个月
在-18℃汇条件下，贮存期为6个月

Prepreg storage period
1 month at 22℃
3 months at 0℃
6 months at -18℃

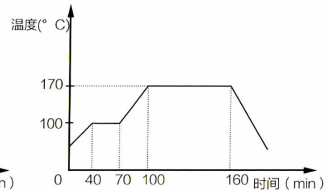




环氧树脂预浸料（经编织物85℃）固化曲线图
Curing curve of epoxy resin prepreg(warp knitting 85℃)



环氧树脂预浸料（130℃）固化曲线图
Curing curve of epoxy resin prepreg(warp knitting 130℃)



酚醛树脂预浸料固化曲线图
Curing curve of phenolic resin prepreg

| Fabric Type | Fabric Yarn | | Weave | Dry weight（g/㎡） | Resin Content (%) | Total Weight（g/㎡） | Thickness (mm) | Width（mm） |
|---|---|---|---|---|---|---|---|---|
| | Warp | Weft | | | | | | |
| J1K-P-120 | 1K | 1K | Plain | 120 | 40 | 205 | 0.16 | 1000 |
| J-USN50 | 1K | 1K | Twill | 120 | 40 | 205 | 0.16 | 1000 |
| J-USN75 | 3K | 3K | Plain | 200 | 40 | 330 | 0.28 | 1000 |
| J-USN100 | 3K | 3K | Twill | 200 | 40 | 330 | 0.28 | 1000 |
| J-USN125 | 3K | 3K | Satin | 240 | 40 | 405 | 0.30 | 1000 |
| J-USN150 | 6K | 6K | Plain | 320 | 40 | 530 | 0.40 | 1000 |
| J-USN175 | 6K | 6K | Twill | 320 | 40 | 530 | 0.40 | 1000 |
| J-USN200 | 6K | 6K | Satin | 400 | 40 | 665 | 0.40 | 1000 |
| J-USN225 | 12K | 12K | Plain | 400 | 40 | 670 | 0.50 | 1000 |
| J-USN250 | 12K | 12K | Twill | 480 | 40 | 800 | 0.55 | 1000 |