



Sanchuan Hi-Tech Fabric Co., Ltd. is specialized in functional and technical fabrics for Workwear, Protective Clothing, Military & Police Uniforms, Tactic Gears, etc. As one of the leading suppliers in technical fabrics, we've been co-operating with many renowned brands throughout the world. We've professional R&D team, production facilities, in-house lab and quality assurance system, certified by ISO 9001, Oeko-Tex 100, GRS & bluesign®.



**3D-TEX®** technical fabrics could be featured as **Sustainable, Robust, Fashionable, Waterproof, Windproof, Breathable**, but not limited to. The ready garments made from **3D-TEX®** technical fabrics could protect the wearers with sufficient protection under foul weather or dangerous work conditions.

With 25 years of professional expertise in innovative and technical fabrics, our fabrics could conform to one, two or multi-norms of **EN13688, EN14058, EN20471, EN343, EN1149, EN13034, EN14116, EN11612, EN11611, EN61482**, etc.

## 3D-TEX® Sustainable, Technical & Innovative Fabrics

KEY FEATURES

SUSTAINABLE

ROBUST

FASHIONABLE

WATERPROOF

WINDPROOF

BREATHABLE



## Sustainability

### Recycled & Recyclable

We are dedicated to not only the latest trends, technology and innovation, but we also believe that the future of our planet and environment depends on a critical move towards a greener way.

Recycled fabrics are made from plastic bottles, fishing nets, discarded clothing, etc. The application of Recycled Yarns could significantly reduce emission and water impact.



The recycled yarns applied are all of good quality, transparent and traceable. All the recycled fabrics we're selling in the market are all GRS certified, and T/Cs are guaranteed to issue to proof.

### Recycled TPU, PU & TPE Membranes

Further to enhance the recycled composition of the total fabrics, we are also applying Recycled TPU, PU or TPE membranes. All the recycled membranes we're using in the recycled fabrics are GRS certified, and T/Cs are guaranteed to proof.



### Fully Recycled & Recyclable

Though many recycled fabrics are made from recycled yarns and recycled membranes, but they're not technologically or commercially recyclable because there are 2 or more compositions in the fabrics, which make processing very complicated or not commercially feasible.

However, if we laminate the polyester fabrics with polyester membranes, then the fabrics will be mono-composition and become technologically & commercially feasible to process. Hence, it's recyclable in practice. We call such kind of fabrics are really **Recyclable**.

To go further, if we laminate the recycled polyester fabrics with recycled polyester membranes, we're very proud to announce that they're **Fully Recycled and Recyclable**.

Hi Vis Yellow

Hi Vis Orange

Hi Vis Red

Navy

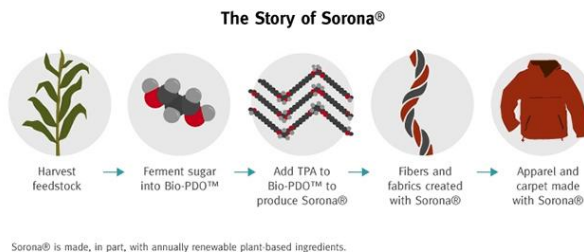
Black

Royal

Grey



It's a partially plant-based polymer by **DuPont®** that brings high-performance, sustainability fabrics to the fashion industry and eco-conscious consumers and fulfills the commitment of **“One kind of the raw material, unlimited possibilities”**.

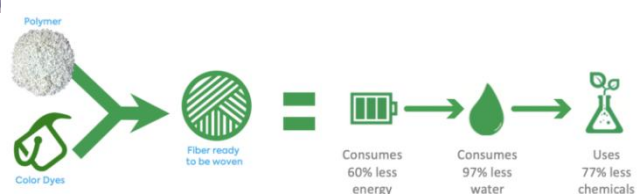


**Sorona®** fabrics have the following features & benefits but not limited to:

1. Eco-friendly, lower emission and carbon footprint.
2. Good Stretch and Recovery
3. Natural Soft Hand Feel & Fluffy
4. Excellent Dimensional Stability
5. Good Even Fabrics Surface and Wrinkle Resistance
6. Good Quick-Dry and Moisture Management

## Solution-Dyed Fabrics

Solution-dye is a process used in the textile industry to color synthetic fibers before they are spun into yarns. This method of dyeing is different from traditional dyeing, where the fabric or yarn is dyed after it has been woven or knitted. In solution-dyeing, the dye is added to the polymer solution before it is extruded through spinnerets to form fibers.



Solution-dyeing has many benefits. It is a more eco-friendly method of dyeing compared to traditional dyeing, because the process eliminates the need for large volumes of water and chemicals used in traditional dyeing. This reduction in water and chemical use also means that the process is more energy-efficient and results in lower carbon emissions. Furthermore, the colorants used in solution-dyeing are more stable and resistant to fading, which means that the fibers retain their color shade for even longer time.

Hi Vis Yellow

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Black

Royal

Grey



## Flame-Retardant

## Multi-Risk

Flame Retardant fabrics offer multi-risk protection against all kinds of hazards under harsh work conditions. They're widely used in industries, such as Petrochemical, Oil and Gas Plants, Electric Company, Firefighters, Technical Rescue, etc.

Anti-static fiber prevents static accumulation, eliminating potential risks of explosion or fire.



Norms Compliance but not limited to:

- EN13688 General Requirements for Protective Clothing
- EN20471 High Visibility Warning Clothing
- EN343 Protection against Rain
- EN1149-5 Electrostatic Properties of Protective Clothing
- EN13034 Type PB 6 Protective Clothing against Liquid Chemicals
- EN14116 Protective against Heat and Flame
- EN11611 Protective Clothing for Use in Welding and Allied Processes
- EN11612 Protective Clothing to Protect against Heat and Flame
- EN61482 Protective Clothing against Thermal Hazards of Electric Arc



Hi Vis Yellow

Hi Vis Orange

Hi Vis Red

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Grey

Black

## Hi Vis Rainwear

EN343+EN20471

The high visible clothing is intended to provide conspicuity of the wearer in any light condition when viewed by operators of vehicles or other mechanized equipment during daylight conditions and under illumination of headlight in the dark.



High Vis fabrics assure high visibility compliance EN20471, RIS-TOM & ANSI 107.

The Rainwear fabrics are robust, durably waterproof, windproof and highly breathable, compliance with EN343-4.4 or EN343-4.3 to provide the protection against rain or foul weather. It's durable to 5, 10, 25 or even 50 cycles of domestic washing.

## Hardshell



Hardshell is durably waterproof, windproof and breathable, compliance EN343 and EN20471 (optional). Hi vis colors and contrast colors are available.

- > **Weather Protection:** Hardshell jackets are often engineered to protect wears against wind, cold and rain as a shelter.
- > **Breathable:** Hardshell jackets made from 3-layer fabrics help reduce the accumulation of sweat during work shift or outdoor activity, which make the wearers feel dry and comfortable.
- > **Light but Durable.** 3-layer but weight ranges from only 80gsm to 200gsm, but still robust and durable to wearing and 25 or even 50 cycles of washing+tumble dry.



## Softshell 3-L & 2-L

3-Layer Softshell is waterproof, windproof and breathable, compliance EN343-4.4 or 4.3, and EN20471 as well if requested. It's robust, soft touch, comfort, stretchy, and excellent thermal regulation, protecting workers from rain, cold, wind or snow during their work shift. It offers better safety with all kinds of high visibility to give exceptional identity to wearers in any weather.

2-Layer Softshell is windproof and breathable, compliance EN20471. It offers warm, comfort and safety for the wearers.



## Mechanical Stretch

Mechanical stretch polyester and mechanical stretch polyamide are both mechanically processed and have many advantages compared with conventional yarns, such as comfortable stretch, steady dimensional change, good hand feel, good looking and recovery.



## T400®/T800

**T400®** stretch fibers have special functions and durable effect thanks to its double-spiral molecular structure. The fabrics made with T400® fibers or blended with T400® are breathable, soft touch, anti-static, strong and lasting in elasticity, fine in soiling resistance and drapability and comfortable for wearing, and it's preferably eco-friendly functional fabric for making workwear jackets, workwear trousers, workwear pants, outdoor sportswear, urban outdoor and casual wear.

**T800** has the similar double-spiral molecular structure and is very similar as T400, but much more competitive in price.

It has comfort and long-lasting elasticity, cotton touch and good performance in tensile strength, anti-abrasion, anti-pilling, etc. Hence, T800 fabrics are now widely used in workwear jackets, workwear trousers and workwear pants, etc.

Hi Vis Yellow	Hi Vis Orange	Hi Vis Red	Navy	Black	Royal	Grey
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## Spandex

Spandex fiber is a kind of synthetic fiber well known for its exceptional elasticity. Spandex fabrics have many good benefits, such as outstanding flexibility in movement, excellent recovery, good touch and comfort. Hence, it's widely used in workwear trousers, workwear pants, jackets, etc.

**Recycled** Spandex and **Dope-dyed** Spandex are also optional and contributes to the sustainability.



## XLANCE®

XLANCE® makes anything elastic from Polypropylene to extra white and non-iron clothing, and it makes elasticity durable thanks to its unique chemical and thermal resistance. It also makes elasticity sustainable from an eco-friendly manufacturing process to extended garments life cycle.

XLANCE® features a unique high performance fit thanks to its dosed elasticity which helps supporting the body and enhancing its movements. And its unique elasticity is everlasting thanks to its inherent resistance to UV rays and sweat.

Thanks to its excellent performance, Xlance® fabrics are more applicable for industrial washing ISO 15797.



Hi Vis Yellow

Hi Vis Orange

Hi Vis Red

Navy

Black

Royal

Grey

## Industrial Washing ISO 15797

Industrial washing is more efficient than domestic washing and hence becoming more and more demanding than ever. Generally, industrial washing is more applicable for 100% Cotton, spun T/C or CVC. Now polyester or polyester with elastic is also becoming more and more demanding in industrial washing.

Our industrial washing fabrics are compliance with industrial washing norm ISO 15797.



## Hi Vis T/C & Spun T/C



T/C fabrics provide high visible safety performance even after 25 or even 50 washing cycles.

With outside's higher durability and inside's skin-friendly structure, the fabrics satisfy wearer's crucial requirements while working in hard circumstances.

Wherever the wearers are exposed to traffics like road, railway, or construction area, it shines its genuine value by keeping its absolute safety.

With T400/T800, spandex or Xlance®, it will be more flexible and comfortable for the wearers.

Recycled polyester and recycled cotton are also applicable for the **Ecomade**-oriented consumers and workwear brands, which is also 3D-TeX®'s core value and dedication to sustainability.

Hi Vis Yellow

Hi Vis Orange

Hi Vis Red

Navy

Grey

Black



## Branded Cordura®

Cordura® fabrics are famous for excellent durability, abrasion resistance, exceptional strength for tough working conditions. They're made from Invista's Cordura® or Nilit's Cordura® yarns. Branded Cordura fabrics are often used as reinforcement for workwear or tactic bags, backpacks, ballistic vests, motor jackets, etc.



## HT Nylon/HT Polyester

The high tenacity fabric also has excellent strength, abrasion resistance and durability as branded Cordura®, but much more cost-effective. It's especially used as reinforcement trims for workwear, bags, backpacks, ballistic vest, motor jackets, etc.



## High Tenacity PACO® or PECO®

We're developing HT Polyamide/Cotton and HT Polyester/Cotton with HT nylon 6.6, HT nylon 6, or HT polyester and high quality Cotton to enhance the tensile strength, tear strength and abrasion resistance, meanwhile to balance the quality and cost. The fabrics innovated by 3D-TeX® are exceptionally robust, breathable and comfortable, but much more cost-effective than the top branded fabrics, which are selling at very incredibly high prices.



Dedicated To A **Sustainable & Innovative** Future!



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