

UTEXA

PROJECT & PRODUCT PROFILE

UTEXA
UNITED TEXTILES OF AMERICA



UTEXA

The BEST Continuous Filament Plant in the Americas!



PROJECT OUTLINE

- **UTEXA** (*UNITED TEXTILES of AMERICA*)
- Product : **PET POY-DTY Filament Yarn**
- Planned
 - Capacity: 30,000 Ton/year
 - Area: 56,000m²
 - Employees: 640
- Location: Choloma, Cortes, Honduras.



Our Vision

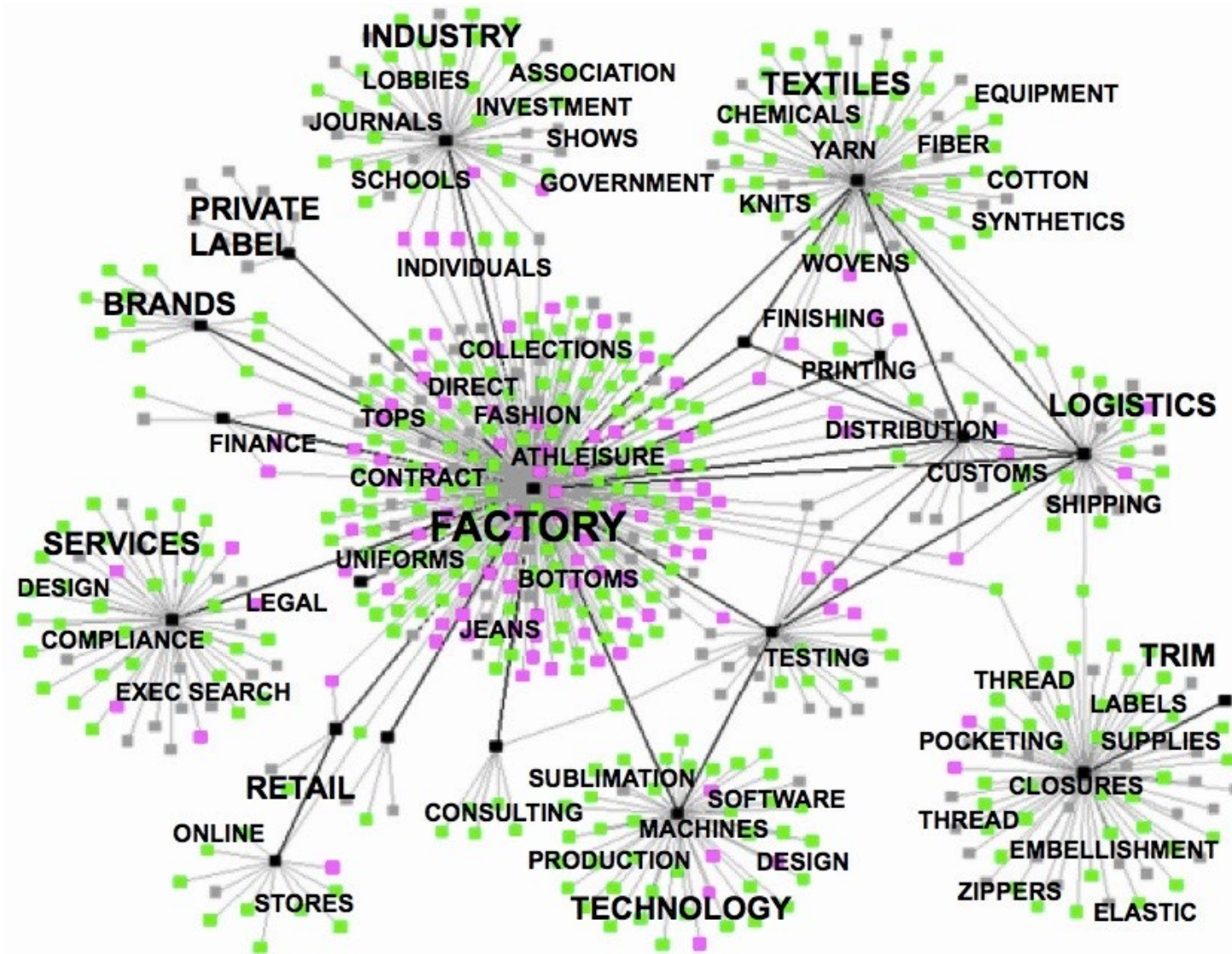
To become the Americas' preferred manufacturer of high quality filament yarns.

Our Mission

To reimagine and lead in textile manufacturing excellence with the purpose of crafting best in class products for our supply chain partners and at the same time providing meaningful opportunities to our staff and their families.



UTEXA: Relentless focus on the customer



Our mission is to fully support your tier 2 and tier 1 suppliers, driving supply chain excellence.

We will provide competitive pricing along with highly reliable quality and delivery so that you can work with us on innovation.



Advanced Cutting Edge Technology

- Our goal is to bring enhanced value and competitiveness to the CAFTA region
- We are diligently working with our partners to become the go-to supply chain
- We are working to be the foremost innovators in the world
- Our global network has many partners that are bringing us exciting, cutting edge product development

Investing in Sustainable Manufacturing

- UTEXA is investing into sustainability in the following areas:
 - Energy:
 - in the process of installing a 2.7 MW capacity of solar panels.
 - have invested in the most advanced and efficient machinery available
 - Have the pieces in place to deliver polyester manufactured with a carbon negative footprint
 - Economics: investment in automation requires fewer operating staff
 - Environment: investment in simpler and more efficient operating equipment creates less waste and stress on our environment



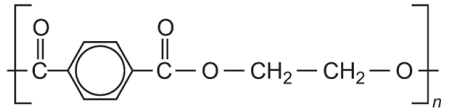
Polyester Filament Value Chain



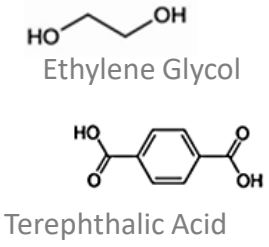
PET Bottle



Clothes



polyethylene terephthalate (PET)



POLYMERIZATION



Chip Spinning

RECYCLING PROCESS

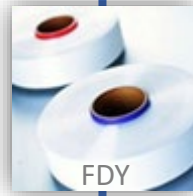
Direct Spinning

~~Chip Spinning~~

SPINNING (DIRECT, CHIP)



POY (Partially Oriented Yarn)



FDY (Fully Drawn Yarn)

~~POY-DTY Process~~

DRAW TEXTURIZING



DTY (Draw Textured Yarn)

KNITTING (Circular, Warping)

WEAVING

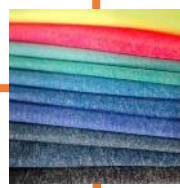
Apparel/Garment



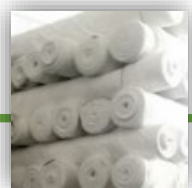
Home Textile



Industrial Textile



DYEING & FINISHING

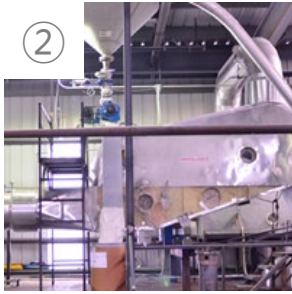


Polyester Raw Fabric

POY Extrusion Process



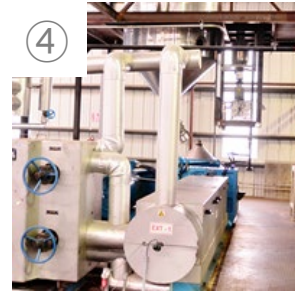
① Raw Chip Hopper



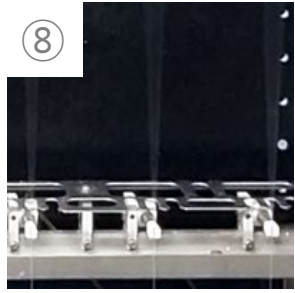
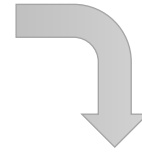
② Crystallizer



③ Dryer



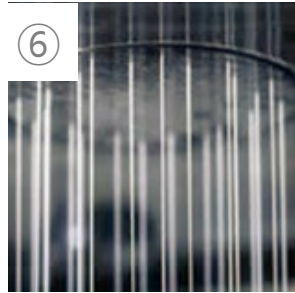
④ Extruder



⑧ Oiling



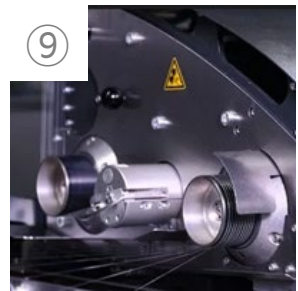
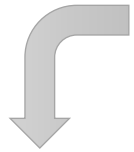
⑦ Quenching



⑥ Spinneret



⑤ Gear Pump



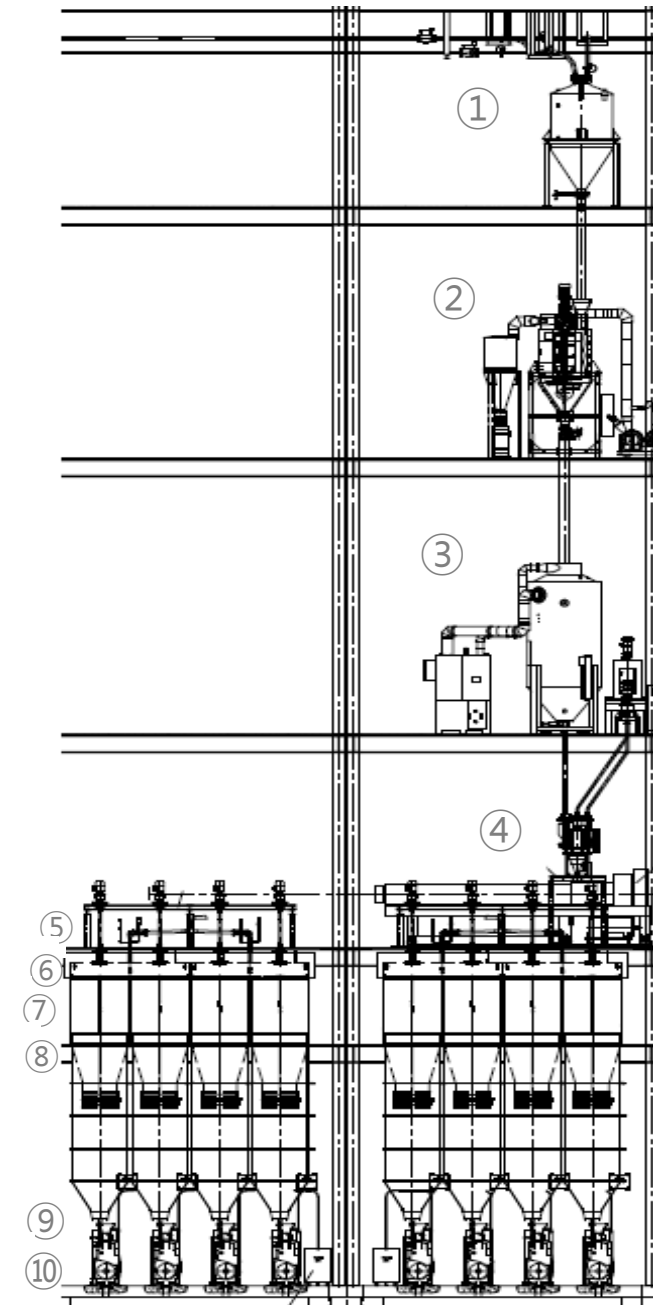
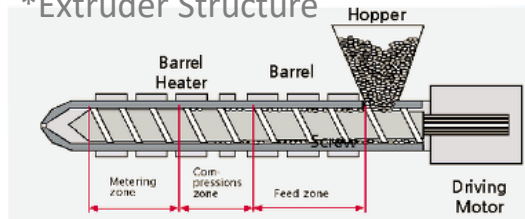
⑨ Godet rollers/
Interlacer



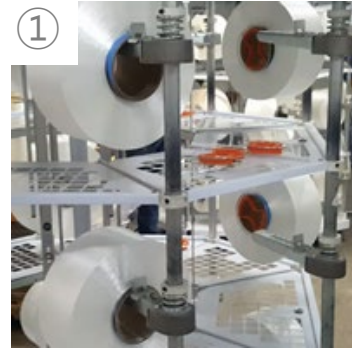
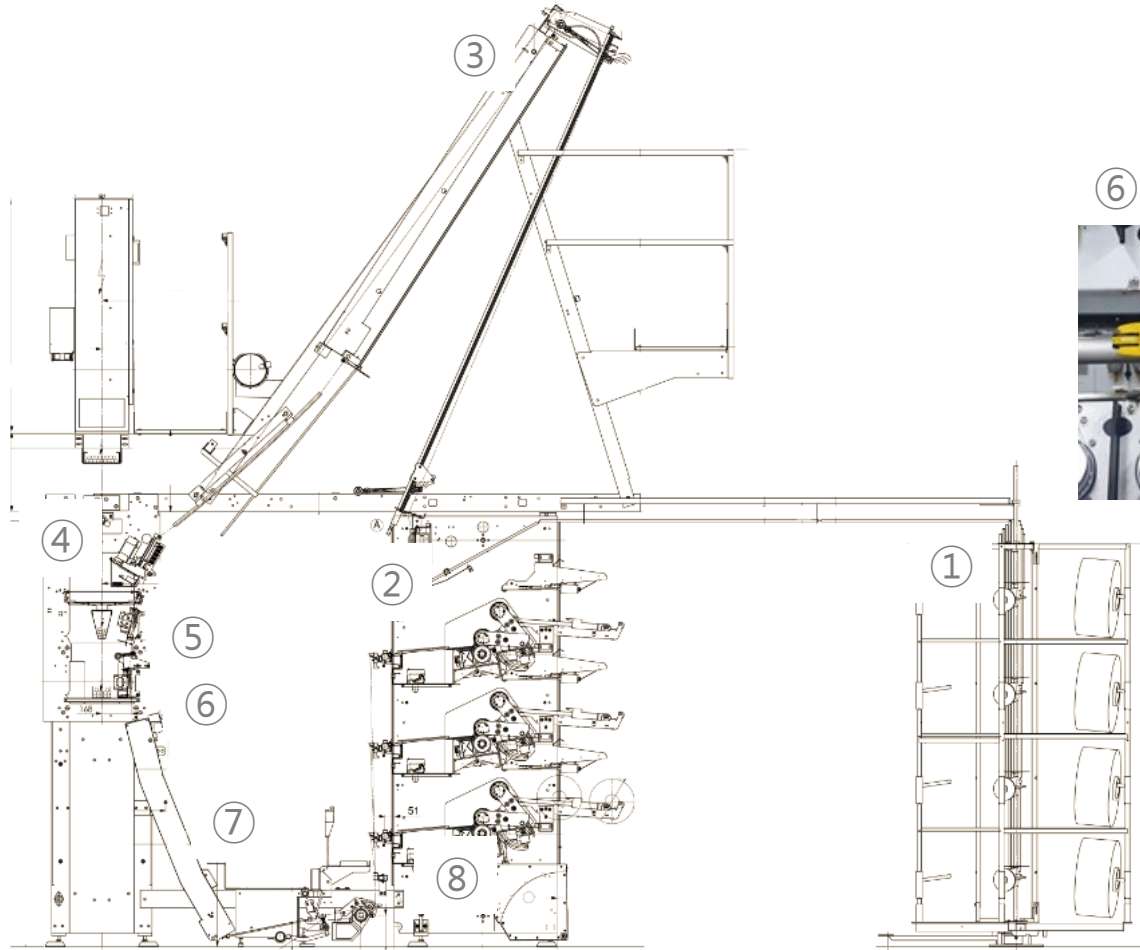
⑩ Winding



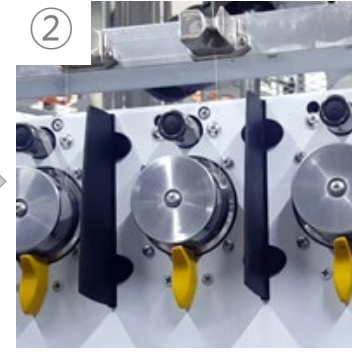
*Extruder Structure



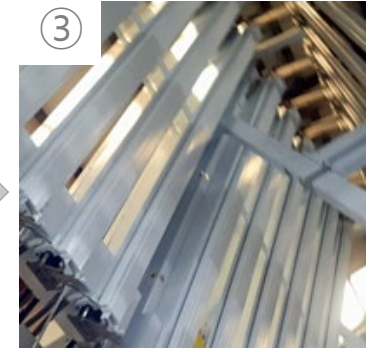
Draw Texturizing Process



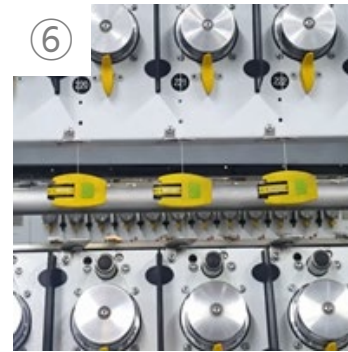
POY Creel



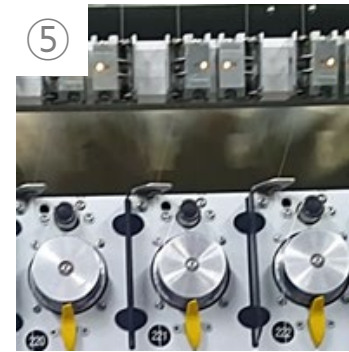
Feeding Roller



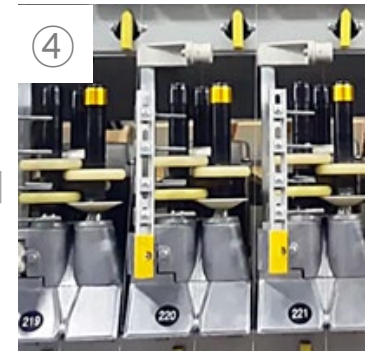
Primary Heater



Interlacer



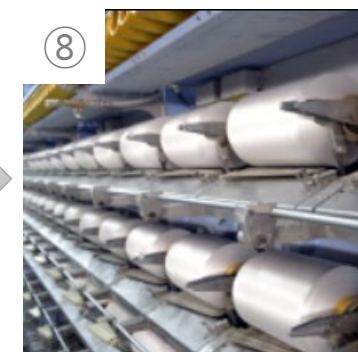
UNITENS



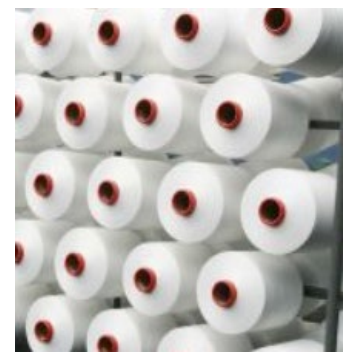
Texturizing Disc



Secondary Heater

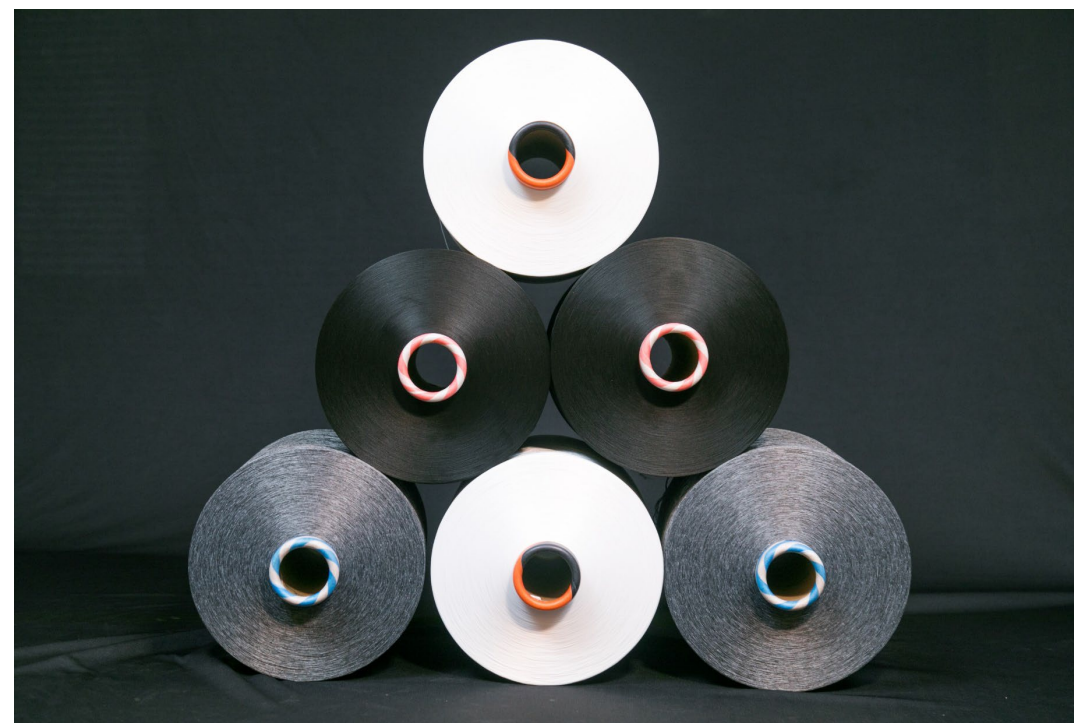
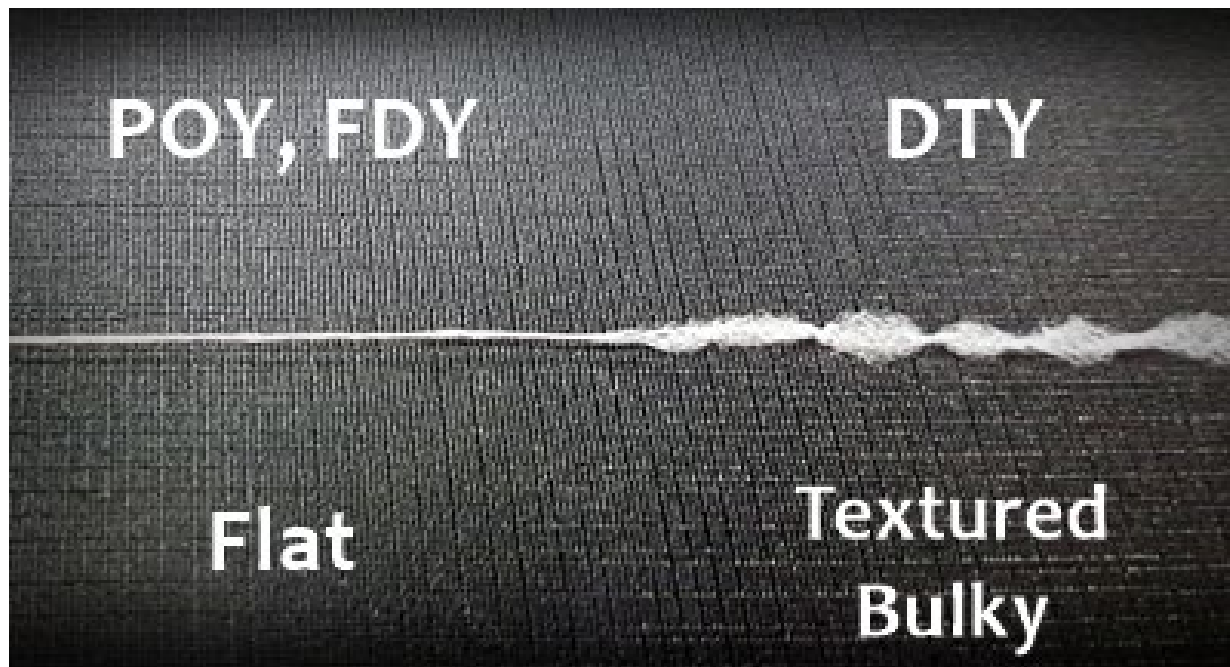


Oiling & Winding



About Draw Textured Yarn

DTY (Draw Textured Yarn) is a drawn-textured and fully oriented filament yarn with soft-crimp, bulkiness, cotton-feel-texture and high durability properties. DTY is manufactured with *POY (Partially Oriented Yarn) using texturizing machines and it is suitable for fabric end uses like outer-inner garments, skin-clinging garments, upholstery, etc. DTY is a replacement of cotton and cotton blend yarn with lower moisture content in fabric.



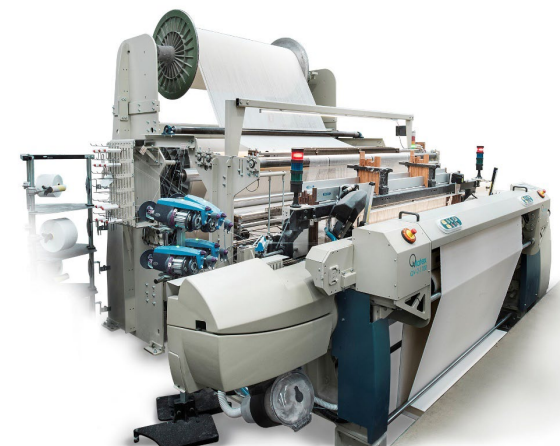
Selected Draw Textured Yarn Process Uses



Warp Knitting



Circular Knitting



Weaving



Sewing Thread



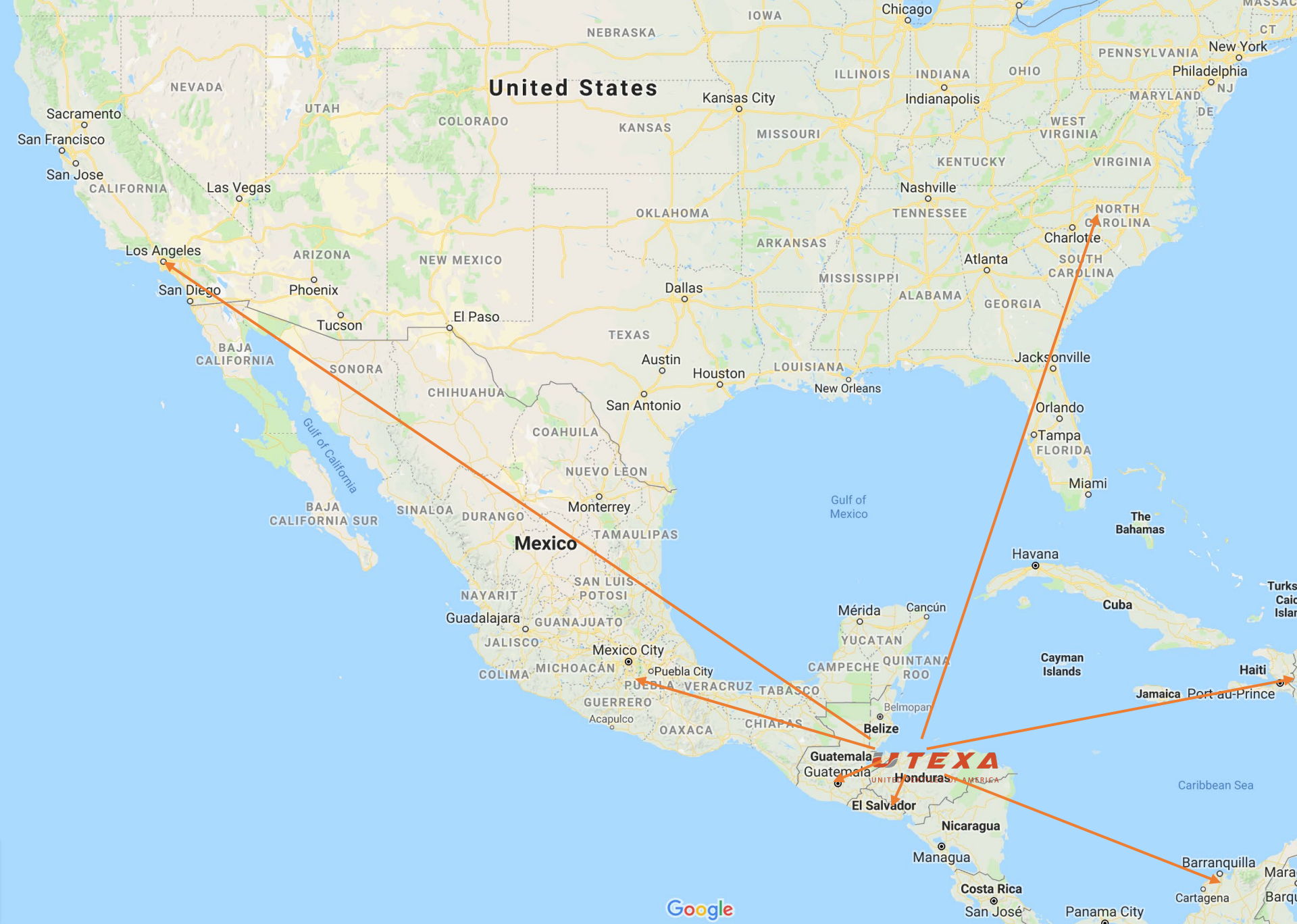
Hosiery



Flatbed Knitting



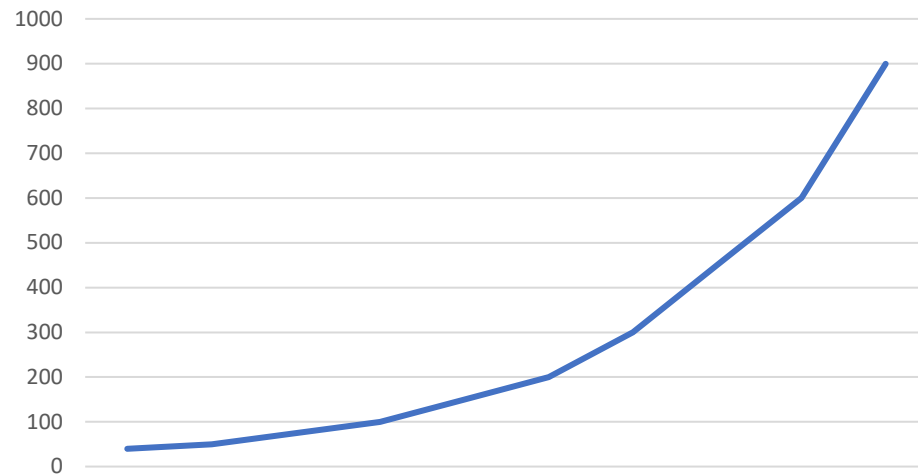
Narrow Fabrics



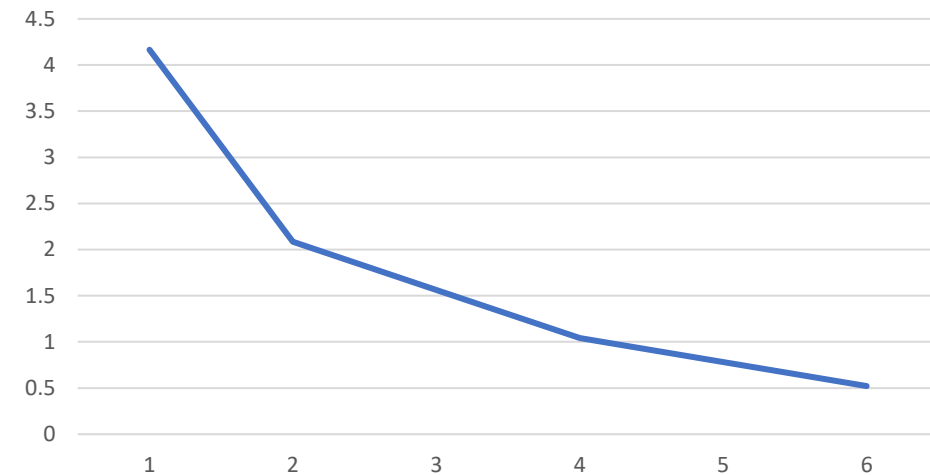
- Centrally located in the Americas, Utexa is ideally positioned to supply a variety of customers in the Americas

Product Range

DTY Denier (40 – 900 Denier)



Denier Per Filament (4.5 – 0.5 DPF)



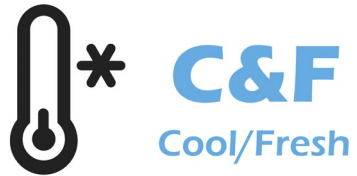
Standard products come in a high range of options

Example: 150 denier / 36 filament DTY is ~4.2 DPF and 150 denier / 288 filament DTY is ~0.5 DPF

Performance Products



- Recycled
- Eco-Friendly
- Reduction of CO₂ Emmissions
- Save Petroleum Resources



- Moisture Management
- Cool Touch
- UV Protection
- High Coverage



- Anti Microbial
- Moisture Management
- Odor Management



- Heather Effect (Two tone)
- Natural and Fancy Look



- Vivid and Deep Color
- High Fastness
- Dyeing at Lower Temperatures



- Dope-dyed Solution Yarn
- Permanent Fastness
- Eco-Friendly and Economical



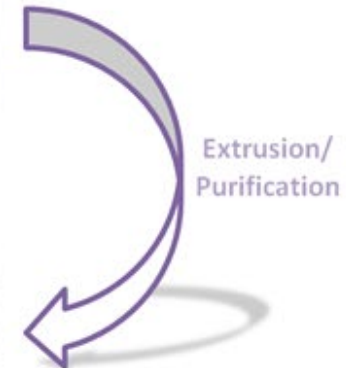
- Mirofiber Filament Yarn
- Soft Touch



- Degredation enhancing Technology
- Can be combined with any polyester
- Reduces problema of microplastics

Re:born

UTEXA Reborn is an eco-friendly polyester filament yarn that reduces CO₂ emissions, landfill waste, saving petroleum resources by utilizing recycled PET fabrics and bottles.



UTEXA
UNITED TEXTILES OF AMERICA
Process Start





Control Union Certifications B.V.
Meeuwenlaan 4-6, 8011 BZ, Zwolle, Netherlands
+31 38 426 0100
www.controlunion.com

CERTIFICATE OF COMPLIANCE

(Scope Certificate)

Certificate No: CU1010133GRS-2019-00023610
Registration No: 1010133

Control Union Certifications declares that

United Textiles of America
2.5 Km. Road to La Jutosa, ZIP Choloma II industrial complex.
21112 Choloma
Honduras

has been inspected and assessed in accordance with the
Global Recycled Standard (GRS) 4.0

and that products of the categories as mentioned below (and further specified in the annex) comply with this standard:

Yarns

Processing steps / activities carried out under responsibility of the above-mentioned company (by the operations as detailed in the annex) for certified products

Finishing, Exporting, Spinning, Trading

This certificate is valid until:
2020-11-10
This certificate is valid from:
2019-11-11

Place and date of issue:

Stamp of the issuing body

Standard's Logo



2019-11-11, Zwolle

Name of authorised person:

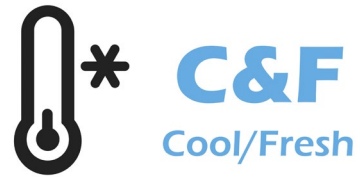
On behalf of the Managing Director
Pritam Pradhan | Certifier

This certificate cannot be used as a transaction certificate. The issuing body can withdraw this certificate before it expires if the declared compliance is no longer guaranteed. Accredited by: Sri Lanka Accreditation Board (SLAB), Accreditation No: CP 004-01

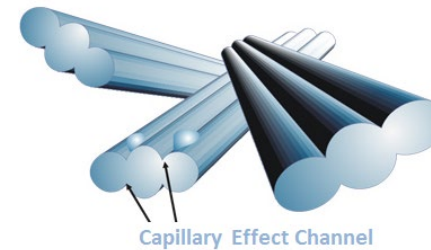
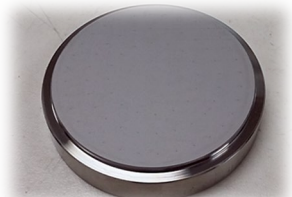


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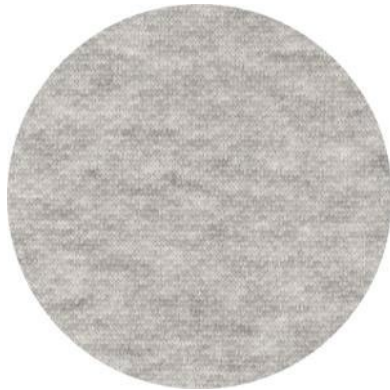


UTEXA cool touch yarn is a high performance moisture management yarn with UV protection and great coverage. This fabric dries quickly and wicks away sweat through the capillary effect of surface channels. C&F promotes wearer comfort and is widely used for performance and outdoor apparel.



Cationic Disperse 

UTEXA cationic disperse yarn allows for a variety of heather effects. Depending on blending conditions, the effect can be adjusted as required.



Heathers Development

Rainbow 

Arena



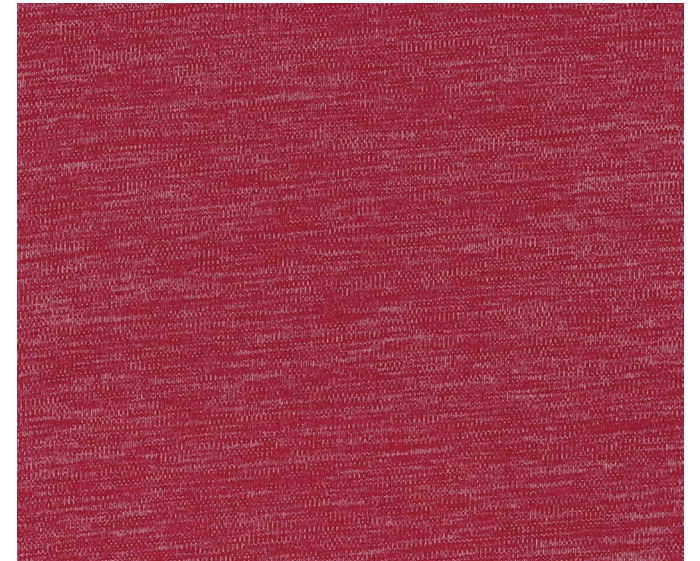
Cascada



Olas



Nublado



**100%
Cationic** 

UTEXA 100% cationic dyeable yarn provides excellent color and wash fastness, giving superior rich, deep colors.



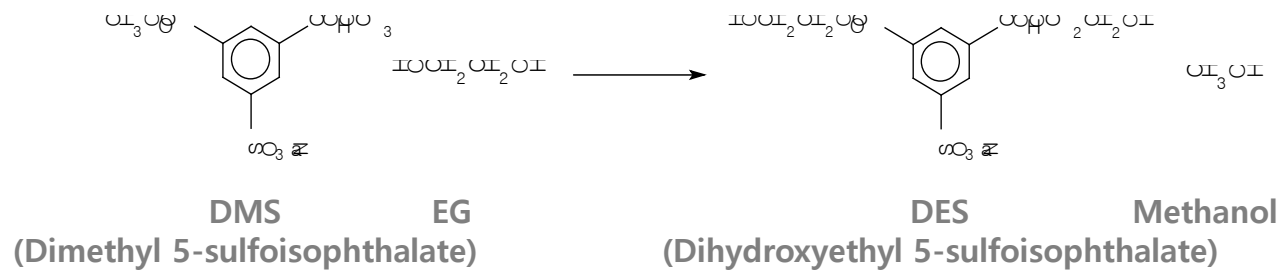
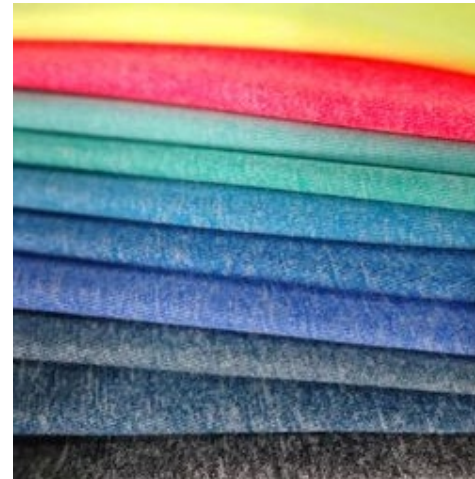
Cationic Deyable PET Regular PET



Cationic Deyable PET



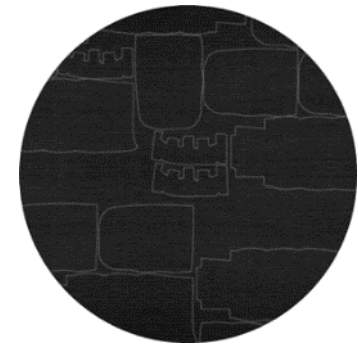
Regular PET

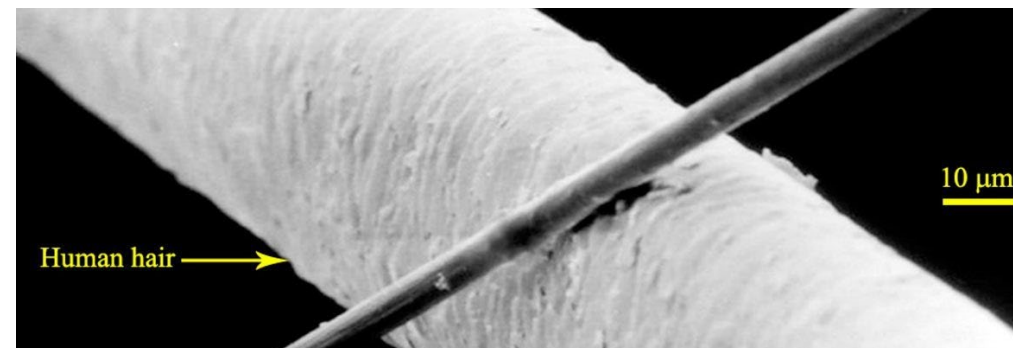
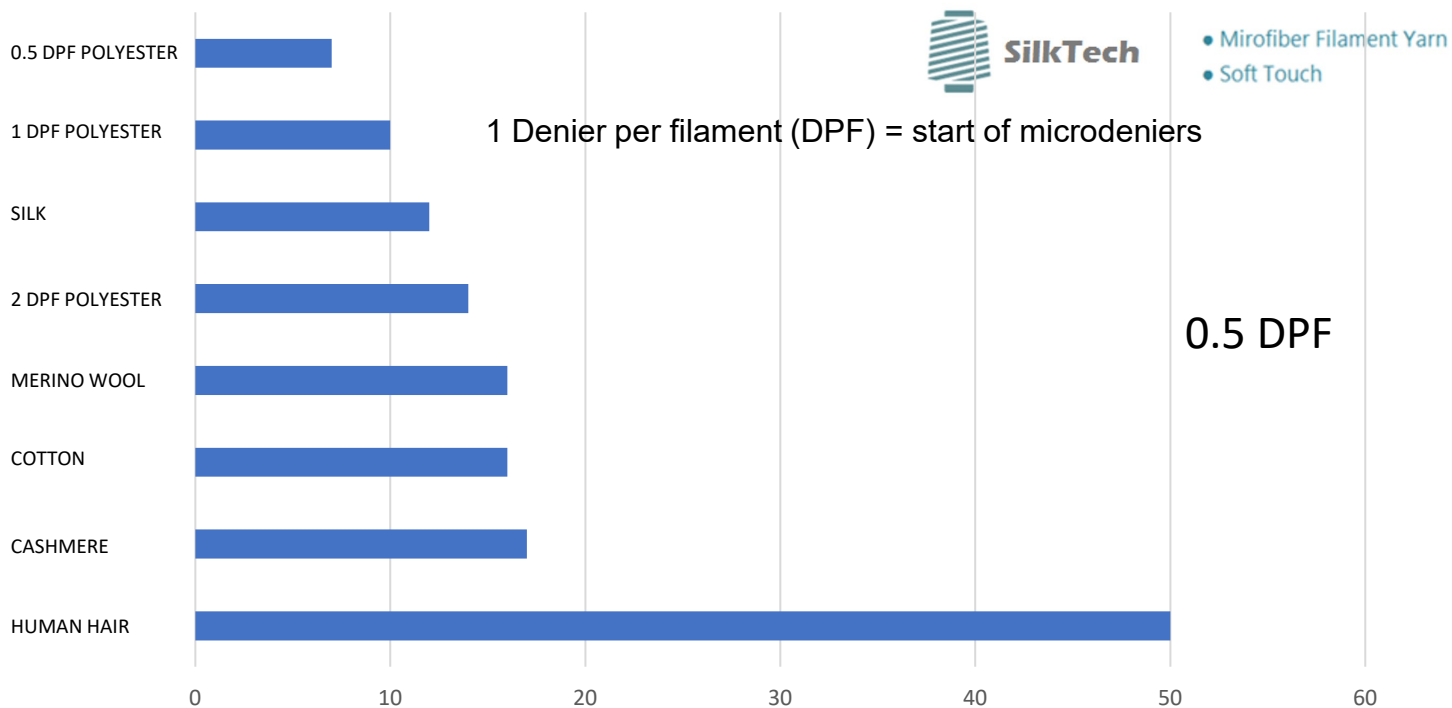


Cromatic

Dope Dyed

UTEXA dope-dyed yarn is created by adding a masterbatch colorant to the polymer melt in spinning or extrusion. This results in a high light fastness and uniform color consistency. Also, it's colorfast, resistant to multiple washing and more environmentally friendly since almost no water is used in the solution dyeing process.





UTEXA micro filament yarn is a polyester microfiber filament yarn (0.5~1 DPF) that requires no separation in post-processing.

With little loss and water consumption during processing, it has a low environmental footprint with a high value

MOISTURE MANAGEMENT AND MICROFIBERS

Air Permeability



Breathability of the fabric, or air permeability, is important to keep you cool

Vertical Moisture Wicking



Vertical moisture wicking measures how well a garment pulls moisture off of your skin into the fabric.

Transport of Moisture



Transport of moisture refers to a garment's ability to move moisture through the fabric to the outside surface.

Spread of Moisture



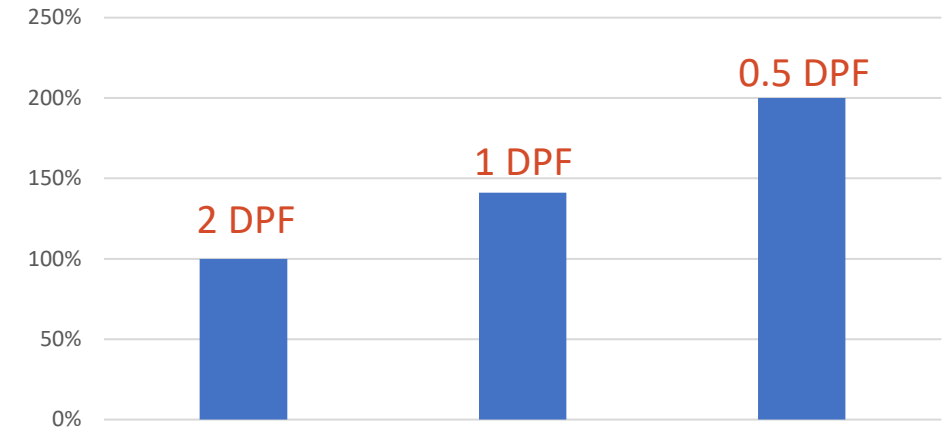
Spread of moisture measures how quickly moisture spreads on the surface. The faster it spreads dictates how quickly you will feel dry.

Water Vapor Transmission Rate



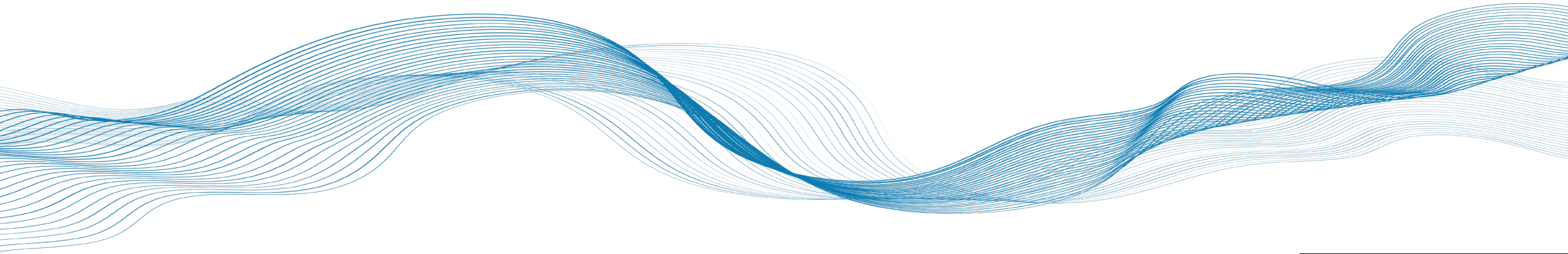
Water vapor transmission rate measures how quickly moisture dissipates through a garment.

Surface Area Compared to 2 DPF Standard
As Contained in Polyester Filament Yarn





“Made to Last” shouldn’t
mean “here forever”



OEKO-TEX®
CONFIDENCE IN TEXTILES
ECO PASSPORT 
17.0.14110 HOHENSTEIN HTTI
Textile chemicals. Tested and verified.
www.oeko-tex.com/ecopassport

Biodegradation Test Methods



WWTP Sludge
ASTM D5210

88%
biodegradation
847 days
vs. 0% for comparable
untreated fiber



Soil
ASTM D5988

88%
biodegradation
742 days
vs. 0% for comparable
untreated fiber



Sea Water
ASTM D6691

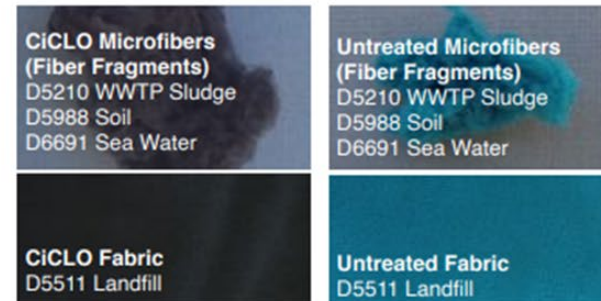
92%
biodegradation
844 days
vs. 5% for comparable
untreated fiber



Landfill
ASTM D5511

75%
biodegradation
872 days
vs. 1% for comparable
untreated fiber

- Data shows biodegradation rate and extent of CiCLO vs non-CiCLO polyester **microfleece** at specific points in time in four environments where textiles are prolific pollutants.
- Non-CiCLO polyester samples do not show significant biodegradation in long-term tests.
- Third party Microtox testing confirms biodegradation process is non-toxic to marine life.





Thank you.

Eric Joo
UNITED TEXTILES OF AMERICA S. de R.L. de C.V.
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