



# TDI Product Collection 2022

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# Catalogue

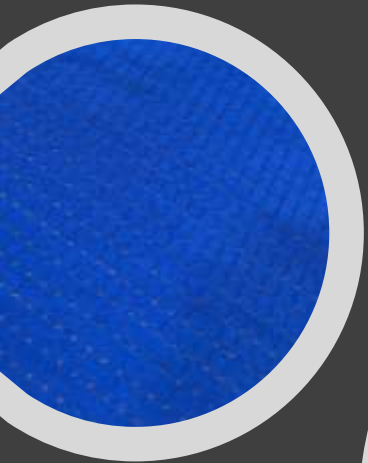
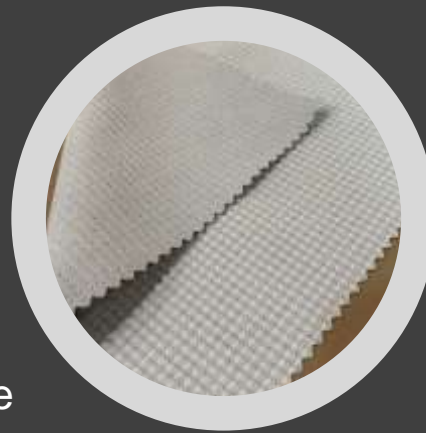
- Single Layer Series
  - Pro-Shell Series (2 Layer)
  - Hard Shell Series (3 Layer)
  - Soft Shell Series
  - Light Weight Series
  - Light Shell Series
  - 2.5 Layer Series
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- Recycle Series
    - Bio-base
    - Eco Membrane
    - REPREVE
    - SEAWASTEX
  - High Performance Membrane
  - Graphene Series
  - Special Finishing Series
  - Protect Series

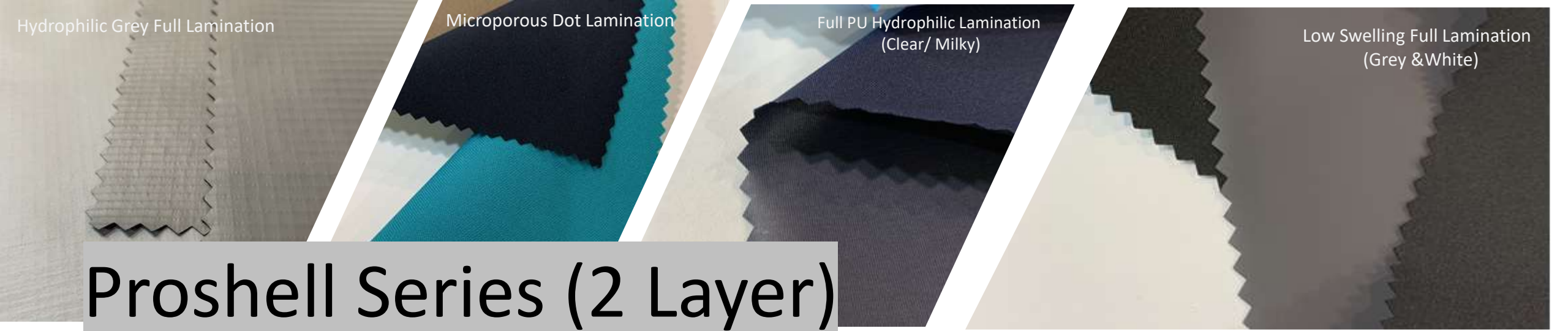


# Single Layer series

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- Component: Polyester, Nylon, Spandex and their mixture
- Type: 2 Way Stretch/ 4 Way Stretch/ Non-Stretch
- Constructure: Plain weave/ Twill weave/ Ripstop/ Herringbone  
Melange (two-tone, jacquard, herringbone...)  
Melted yarn  
Plaid
- Weight: about 65~220 gsm
- Finish: Wicking, Peach, C6 DWR, C0 DWR, Cire, Brush
- Function: Air Permeability, Windproof, Downproof, Pass rain Test





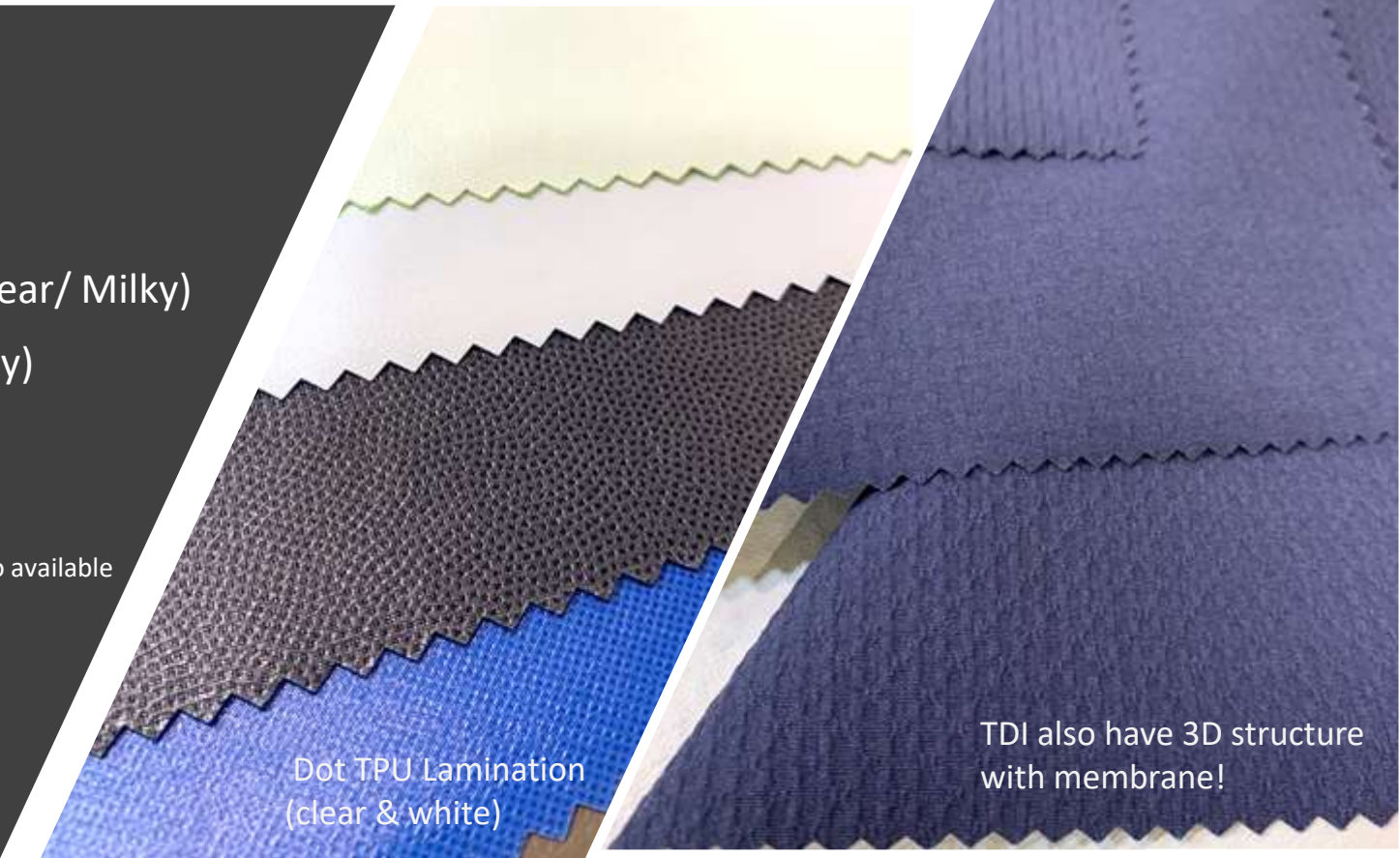
# Proshell Series (2 Layer)

- Component: Polyester/ Nylon/ Spandex and their mixture
- Type: 2 Way Stretch/ 4 Way Stretch/ Non-Stretch
- Finish:

- Full/ Dot PU Hydrophilic Lamination (Clear/ Milky)
- Full/ Dot TPU Lamination ( Clear/ Milky)
- Microporous Lamination (Milky)
- Low Swelling Lamination

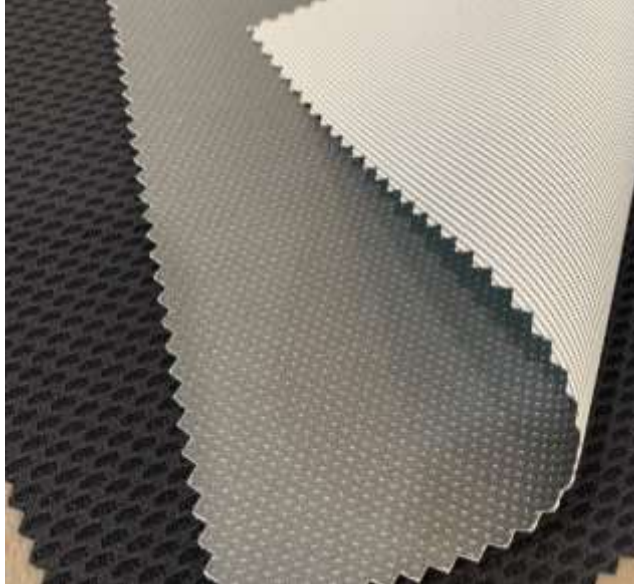
Black and grey membrane are also available

- Function: 10k/10k, 15k/15k/, 20k/20k, 30k/30k
- Waterproof, Pass Rain Test



Dot TPU Lamination (clear & white)

TDI also have 3D structure with membrane!



# Hardshell Series (3 Layer)

- Component: Polyester/ Nylon/ Spandex and their mixture
- Type: 2 way Stretch/ 4 way Stretch/ non-Stretch
- Finish:
  - 15D/ 20D/30D Jersey
  - 2 Layer+ 7D/10D/ 20D Tricot/ Tricot Brush
  - T/CD Jersey, T/W Jersey, Mesh, Interlock
  - The component of third layer is negotiable
- Function: 10k/10k, 15k/15k/, 20k/20k, 30k/30k  
Downproof, Air Permeability, Windproof,  
Pass rain Test

# Soft Shell Series

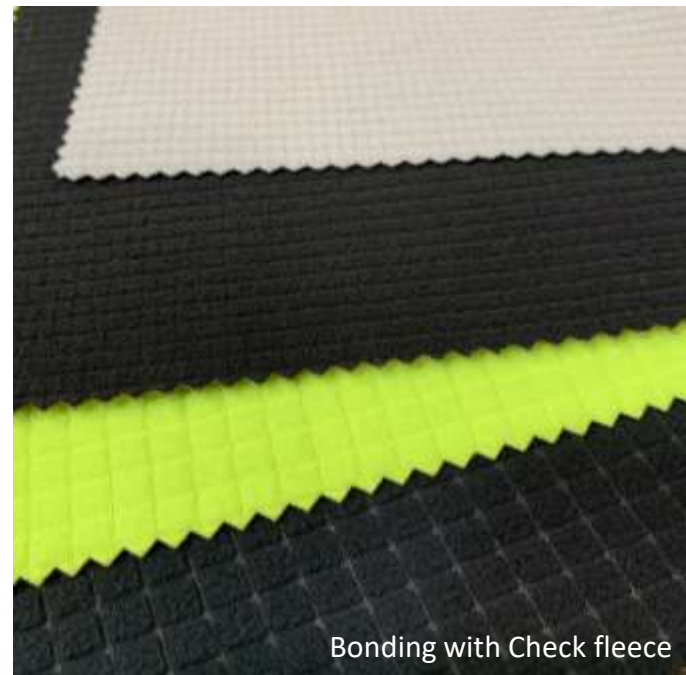
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- Component: Polyester/ Nylon/ Spandex and their mixture

- Finish :

2 Layer + Sherpa, Fleece, Check Fleece, Honeycomb Fleece...

- Function: 10k/10k, 15k/15k/, 20k/20k, 30k/30k



# Light Weight Series

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- Component: Polyester/ Nylon/ Spandex and their mixture
- Type: 2 Way Stretch/ 4 Way Stretch/ Non-Stretch
- Finish: Cire (Face, Back or Both Side)

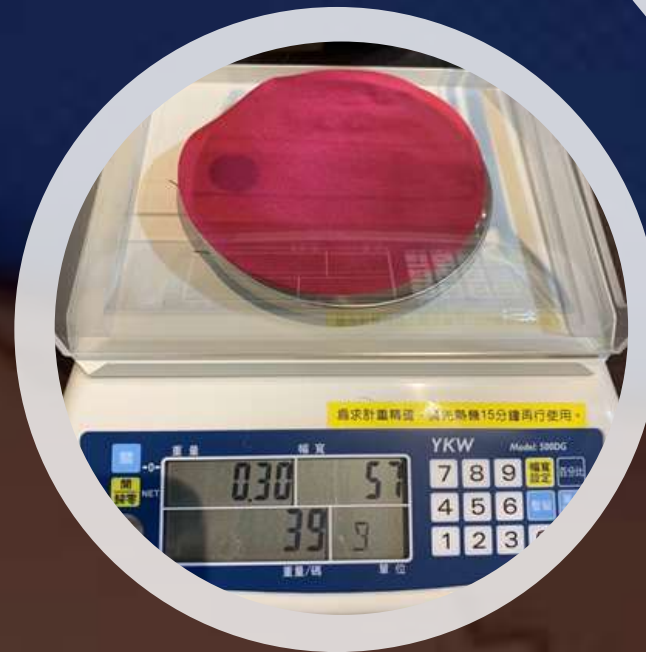
W/R, C6 DWR, C0 DWR

Dry Microporous Coating, A/C Coating, Silicon Coating

Anit- tearing Coating

Hydrophilic Lamination

- Weight: Under 80 gsm
- Function: Pass rain test, Downproof,  
10k/10k(Lamination only)



# Light Shell Series

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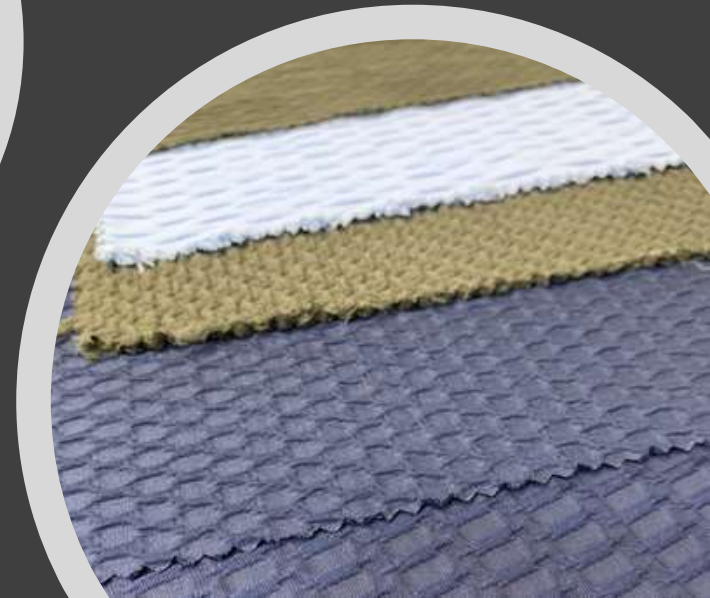
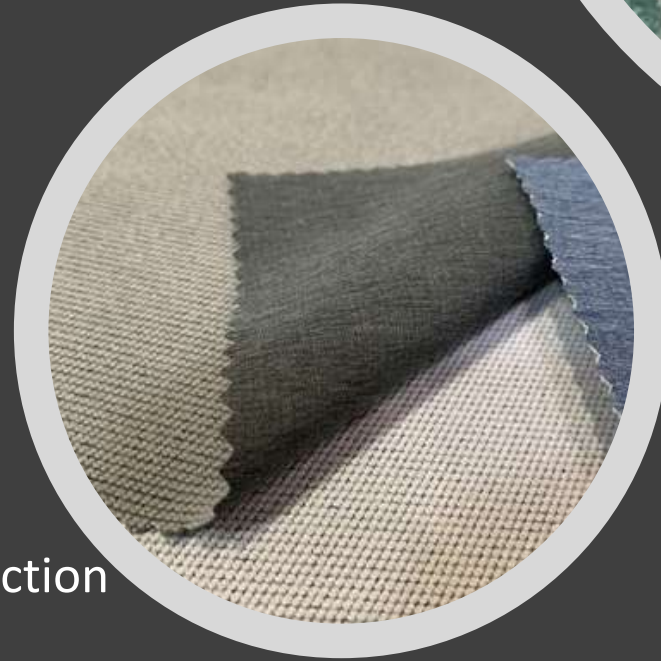
- Component: Polyester/ Nylon/ Spandex and their mixture
- Type: 2 Way Stretch/ 4 Way Stretch/ Non-Stretch
- Finish: C6 DWR/ C0 DWR

Double weaving/ 3D Structure/ Quilting

Brushed/ Long Pile/ Peach

Woven Fleece

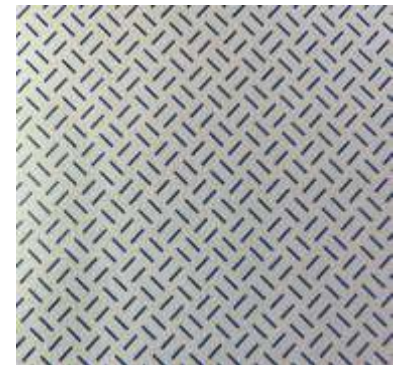
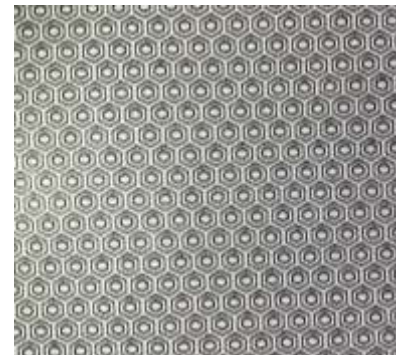
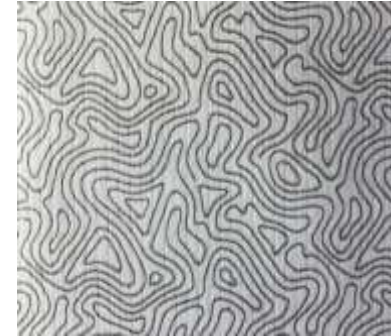
\*Backing yarn can change to graphene or special function





# 2.5 Layer Series

- Print pattern on membrane
- Function: 3D printing
  - Dry touch
  - Various color pattern
  - Far Infrared Print
  - Graphene



# Recycled Series

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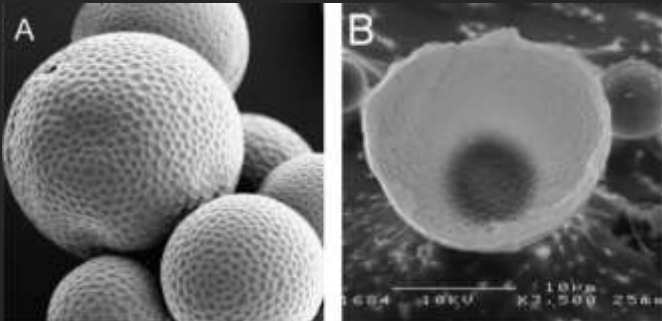
- Recycled Single Layer
- Recycled Proshell
- Recycled Hardshell
- Recycled Softshell
- Recycled Lightshell
- Recycled 2.5Layer

Apart from the previous serious change to recycled version, recycled series also including:

- Bio-base
- REPREVE
- SEAWASTEX
- Eco membrane

# Recycled Series —Bio-base

- Component: Biodegradable Polyester and Biodegradable Spandex
- Finish: CO DWR
  - Cerenol Lamination
  - Bio-base PU Lamination
  - Bonding with recycled jersey
- Function: 10k/10k, 15k/15k, 20k/20k



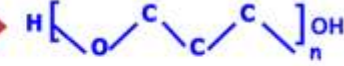
-Soil test environment (ASTM D5511) test method, the degradation rate can reach 91% in 1278 days  
-Marine test environment (ASTM D6691) test method, 262 days degradation rate 44.5%



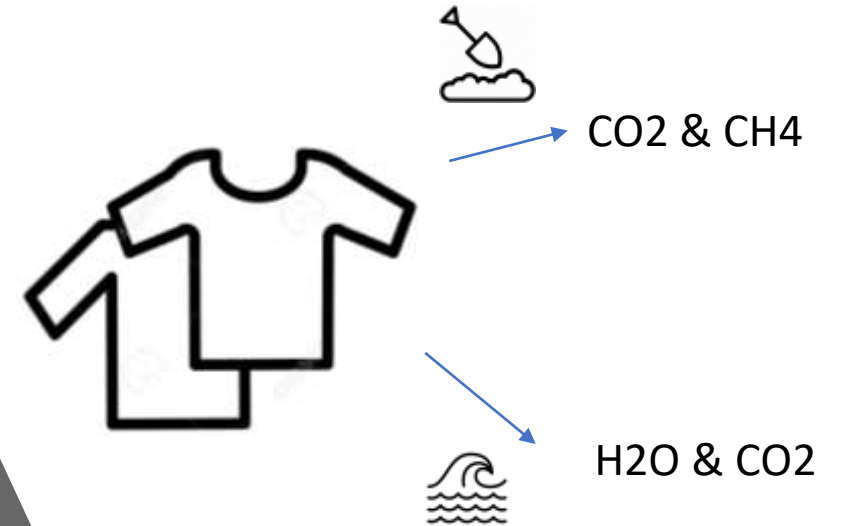
Biomass Feed Stock



Bio-PDO™



Cerenol™





# Recycled Series -REP REVE

- Component: Recycled poly



**Unifi, which makes REP REVE, has recycled over 25 billion plastic bottles.**

<p><b>236K</b></p> <p>Generates enough energy to power 236,567 homes for 1 year.</p>	<p><b>2.9M</b></p> <p>Provides 2.9 million people their typical daily drinking water for 1 year.</p>	<p><b>646M</b></p> <p>Improves air quality by avoiding 646 million kgs. of CO<sub>2</sub> emissions.</p>
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TDI also offer other eco friendly yarn made of 100% post-consumer drinking bottle like Greenplus or Ecogreen for more choice.

# Recycled Series- SEAWASTEX

- Component: Recycled nylon



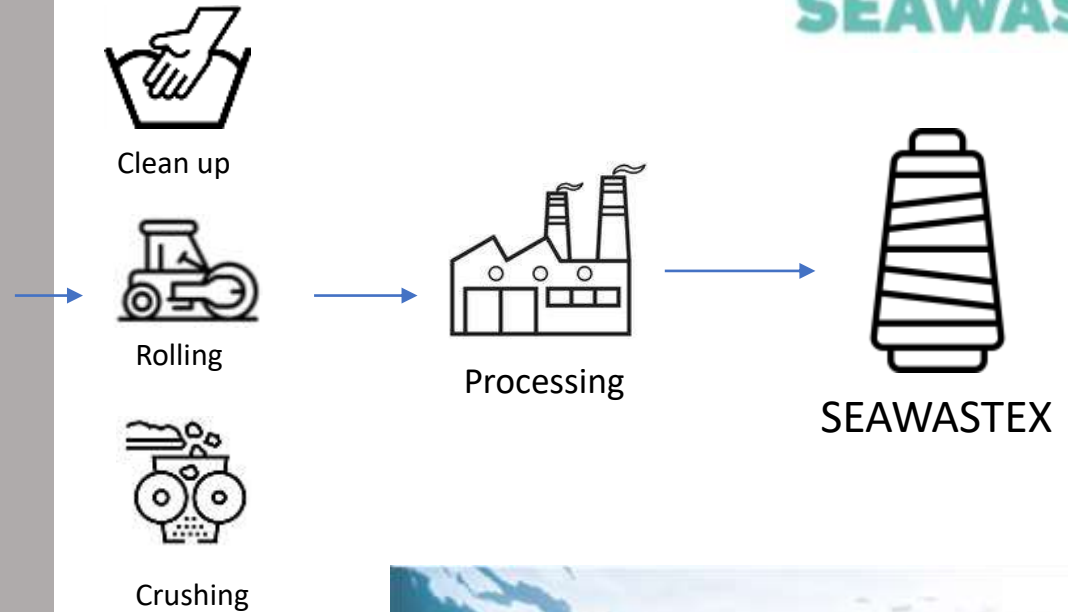
Oyster rope

+



Fishing net

Taiwan is a small sea island, ocean farming is one of our important industry. There is a city in south Taiwan named 嘉義(Jia yi) which is famous for oyster. 嘉義 produce more than 1300 tons of oyster rope per year. But there are no specialize agencies to collect it. In fact, oyster rope is valuable material which can be 100% recycled.



# Recycled Series - Eco Membrane



- Component: Recycled poly, Recycled nylon and their mixture
- Finish: GRS Recycled PU Hydrophilic Lamination
  - Recycled PET Lamination
  - Recycled TPU Lamination
  - TPEE Lamination
  - Thermo-adhesive Poly/ Nylon (replace PUR)
  - Susterra Lamination
- Function: 10k/10k, 15k/15k

# High Performance Membrane

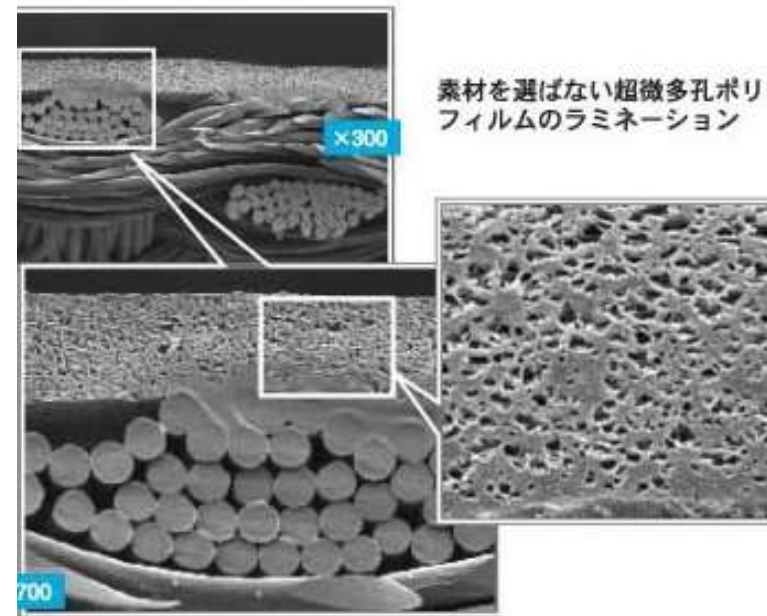
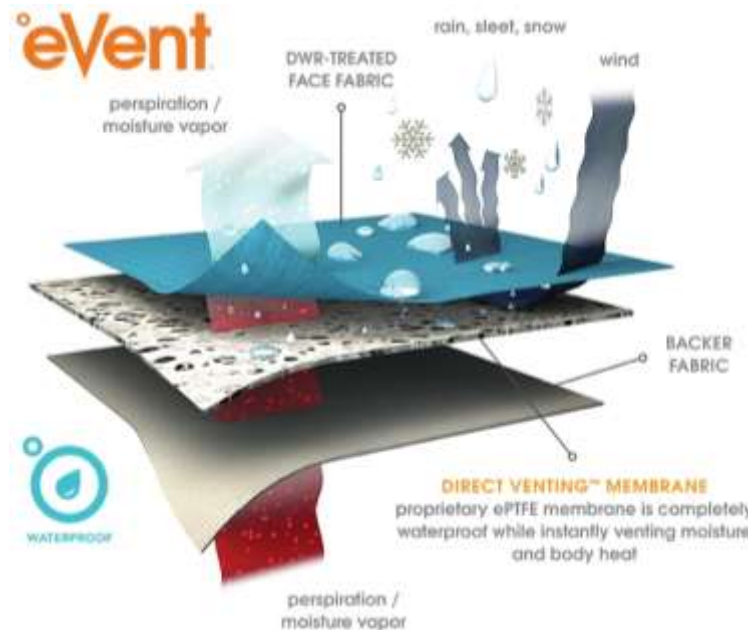
Finish: PTFE Membrane

eVent Membrane

Rustore Membrane

Electrospun Nanofiber Membrane

- Finish: 10k/10k, 15k/15k, 20k/10k, 30k/30k

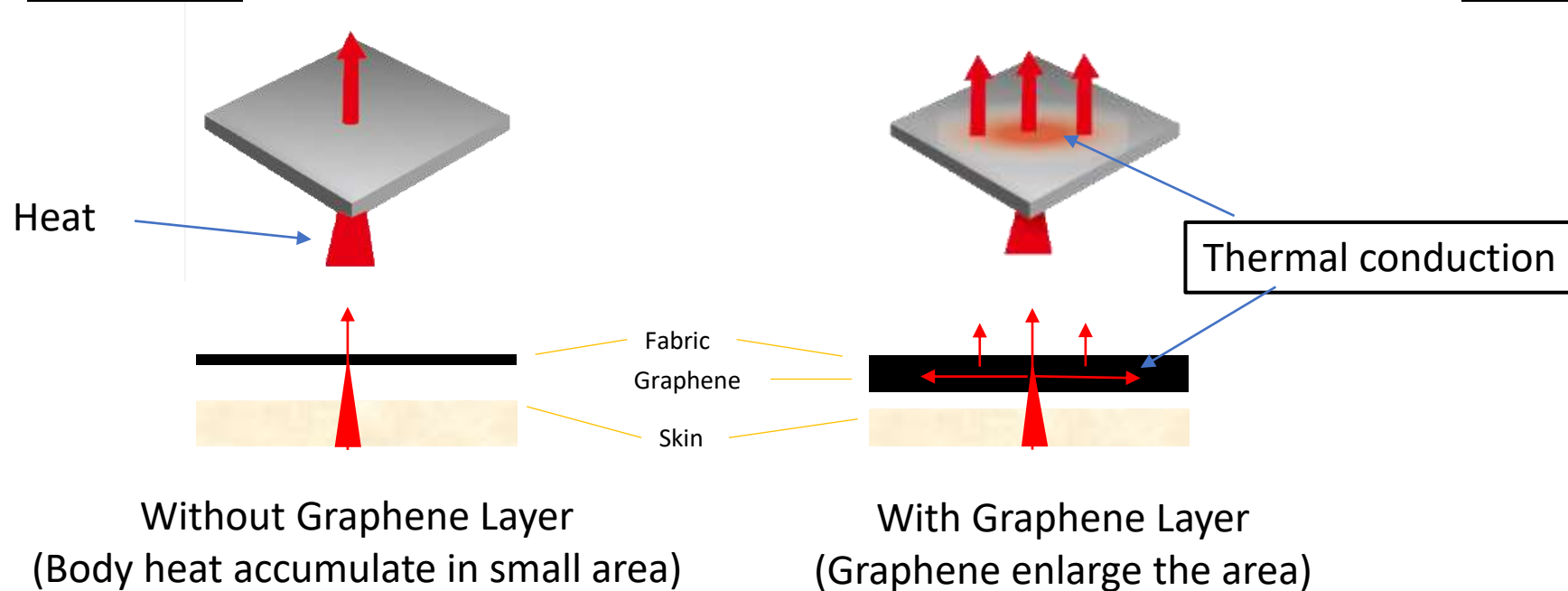


# Graphene Series

- Finish: Graphene Yarn/Graphene Membrane/ Graphene Print

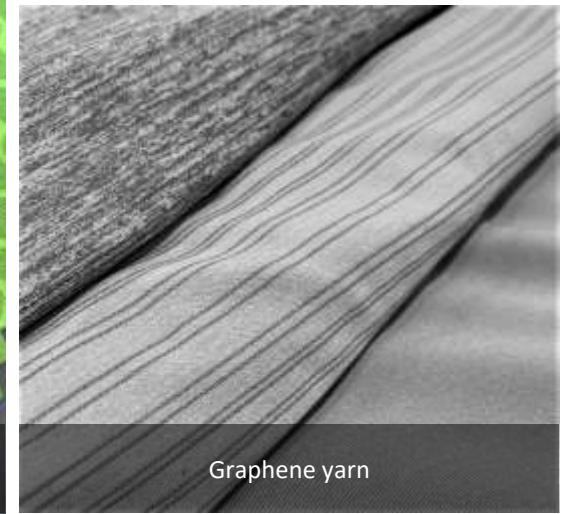
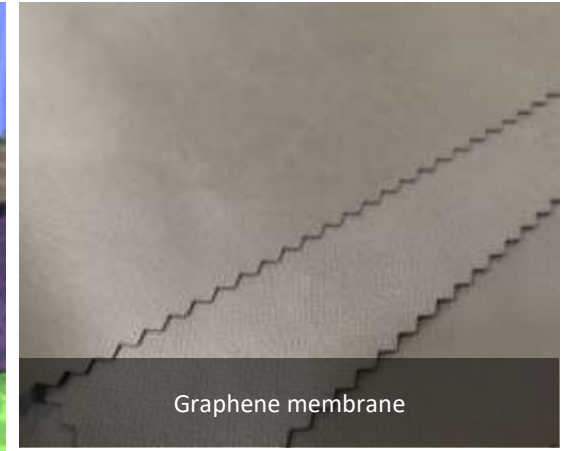
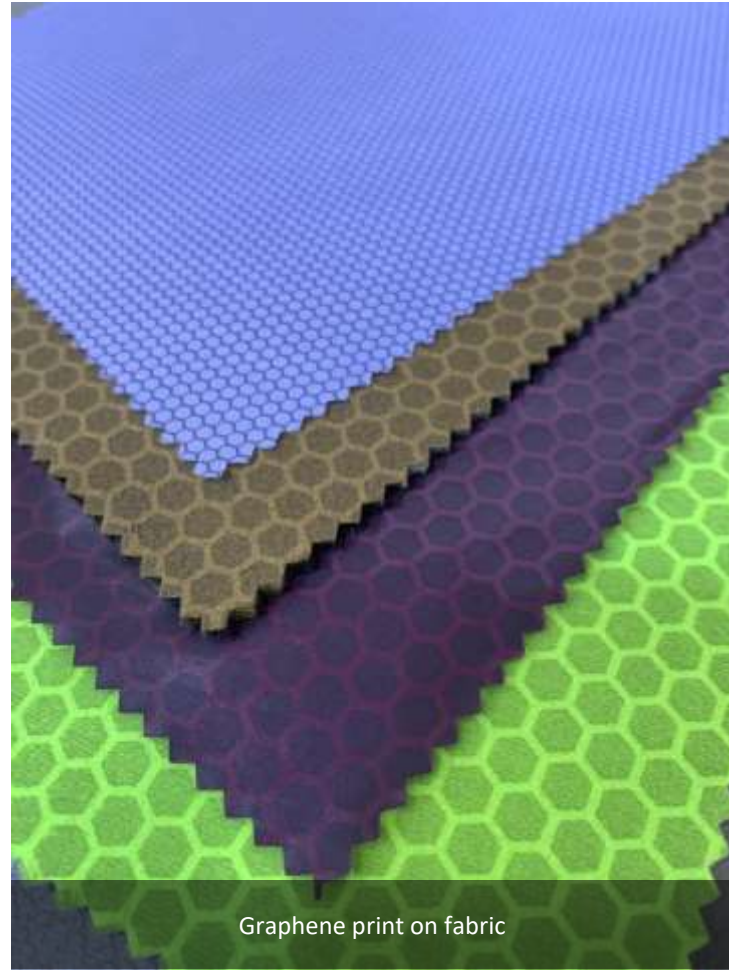
## How graphene enhance fabric's function?

Graphene can achieve thermal conduction in a short time. On one hand, If graphene apply on cooling application, fabric can cooling faster. On the other hand, when graphene apply on warming application, fabric can warm up faster.

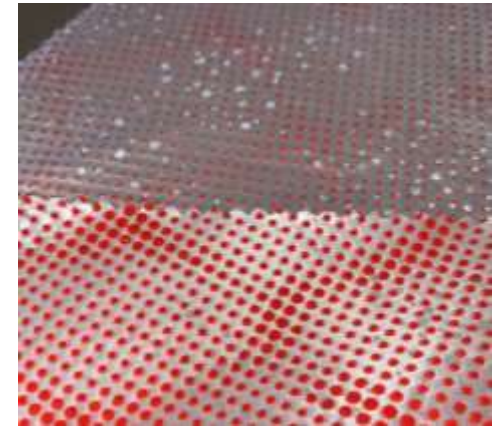
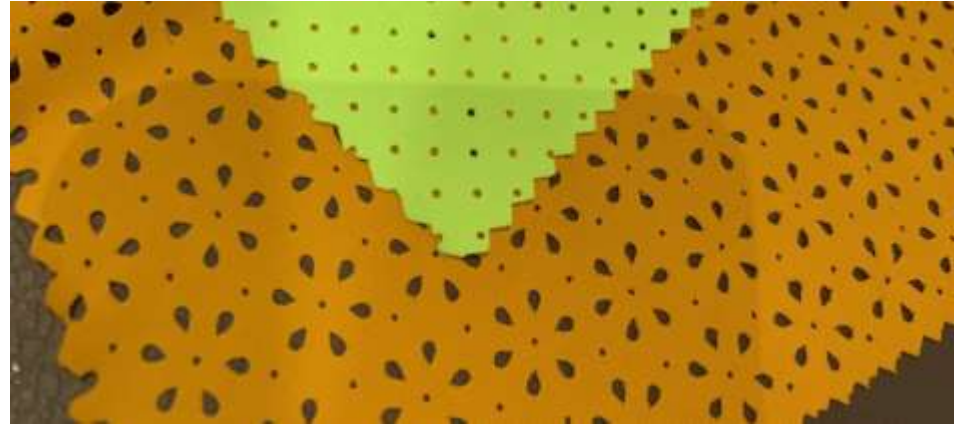




# TDI Graphene Series Product

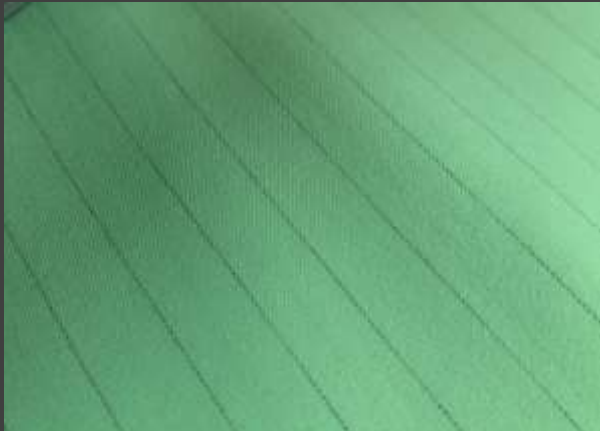


# Special Finishing Series



- Glittery Membrane/ Color Membrane
- Silver Lamination/ Silver reflective fabric
- Reflective Print/ Foil Print/ Heat Reflector Print
- Pleated/ Punch
- Far Infrared Print
- Spry Dye





# Protect Series

- Medical Isolation fabric (AAMI PB70 LEVEL 2)
- Carbon Antistatic Yarn
- High Abrasion Resistance
- Rubber Coating
- High Visibility Safety Fabric (EN ISO 20471)
- Flame Retardant
- Work wear
- Anti-cut Fabric
- High Tenacity



EN ISO 20471