



Introducing Eco series

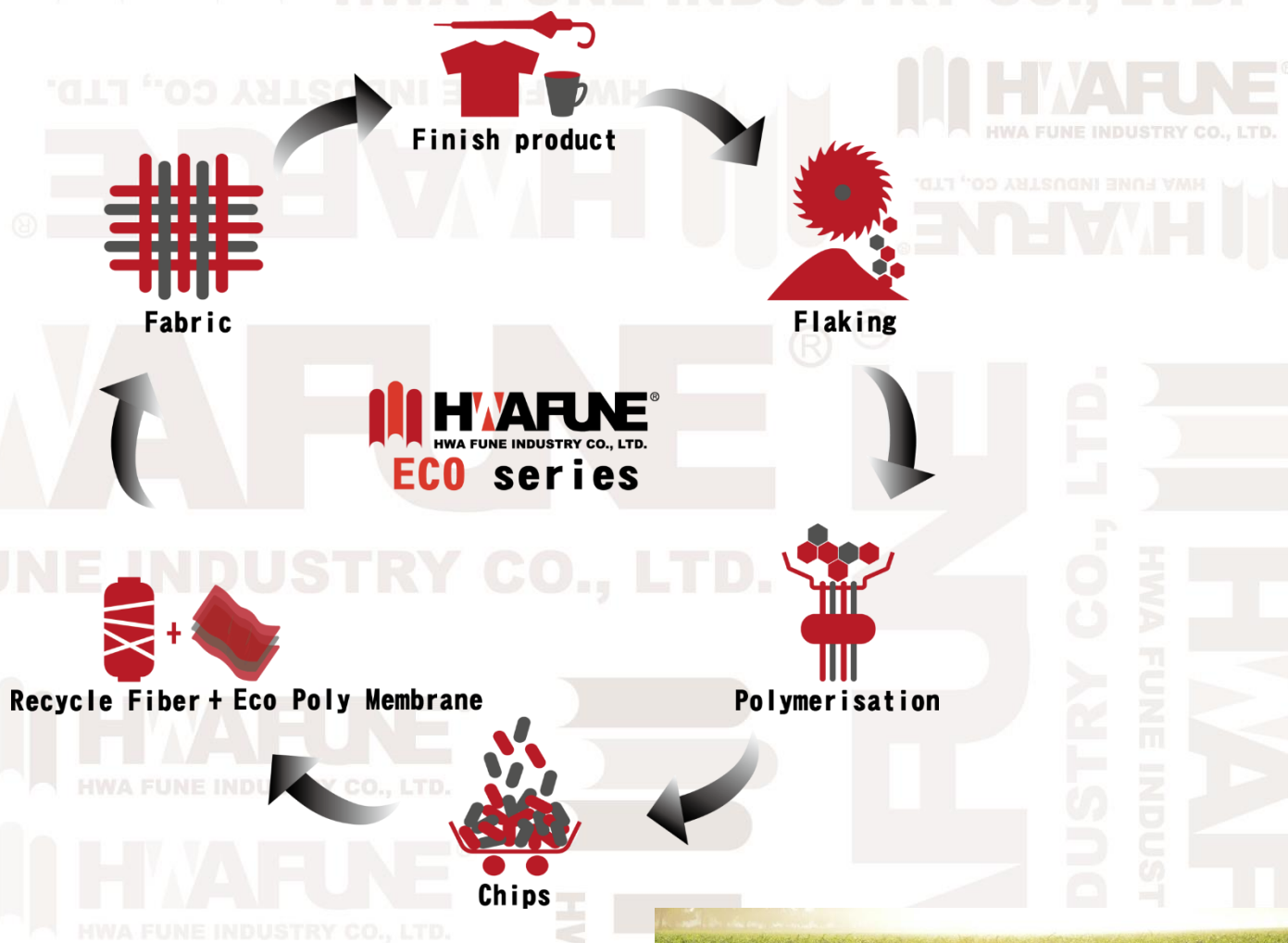
All the Eco-friendly choices you need.

Story behind the scene

With the advancement of science and technology, textile materials are constantly updated.

There are many kinds of eco-friendly materials. Recycle reuse the waste and Bio reduce the use of fossil fuel greatly. Each has its advantages and characteristics. In Hwa Fune, you can know the detailed differences and performance. Follow us to learn more.

At Hwafune we provide better options!!



Eco yarn

Nylon

- Bio Nylon
- Recycle Nylon
- Marine Debris Nylon (Buoy/ Net)

Polyester

- Bio Polyester
- Recycle Polyester
- Marine Debris Polyester



Eco film

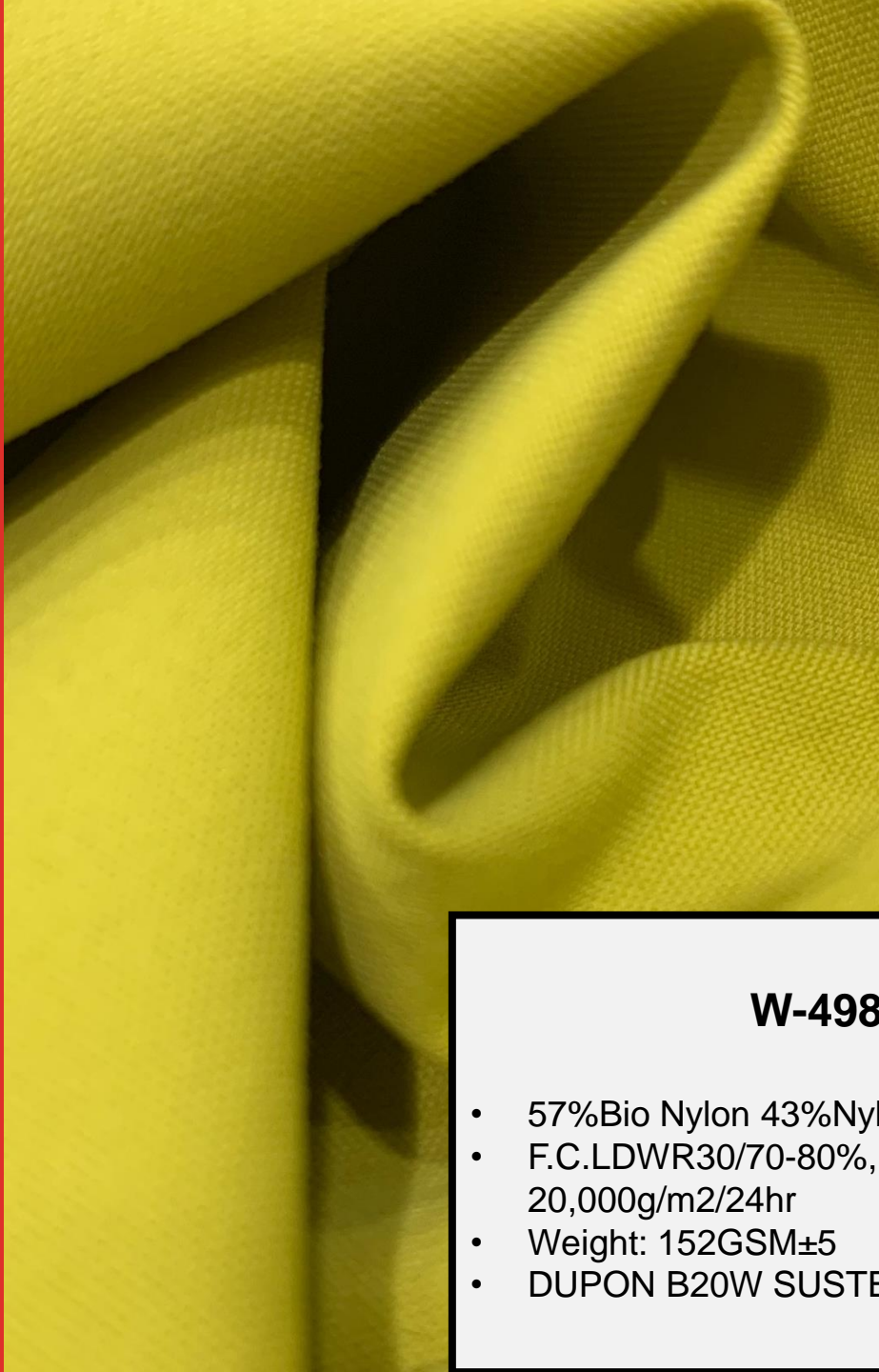
- BIO/ RECYCLE PU
- BIO/ RECYCLE TPU
- PET
- Eco Poly Membrane
- Eco Nylon Membrane



Eco Fabric



Bio Nylon



- Renewable raw materials
- Very good impact strength
- Outstanding resistance to chemicals
- Low tendency to creep
- High strength and rigidity
- Simple processing

BASF
We create chemistry

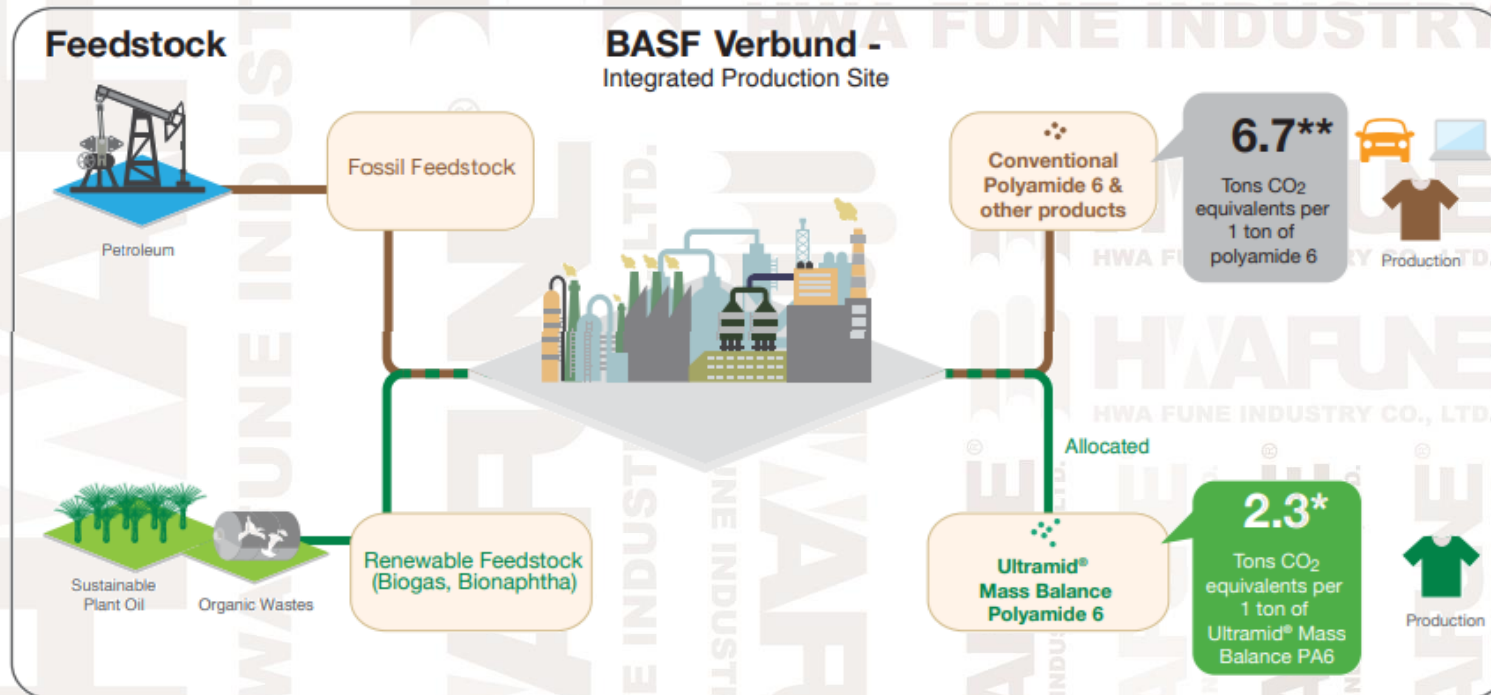
W-4983-L07G

- 57%Bio Nylon 43%Nylon6.6 Stretch(2-way)
- F.C.LDWR30/70-80%, WP 20,000m/m, MVP 20,000g/m2/24hr
- Weight: 152GSM±5
- DUPON B20W SUSTERA/ Ultramid®(BASF)

Eco Nylon

BASF BIO NYLON-ULTRAMID®

BASF has developed a groundbreaking approach to derive products from renewable raw materials: Certified renewable feedstock is used to replace fossil resources at the beginning of the production process and is then allocated to sales products in the respective quantities.



Nylon element:
NH - (CH₂)₅ - CO



16,000 Kilometers

Producing one ton of Ultramid® Mass Balance polyamide instead of conventional polyamide can reduce as much CO₂ as emitted from driving a passenger car for 16,000 km.

Source: U.S. Environmental Protection Agency. Based on the comparison between Ultramid® Mass Balance and fossil feedstock based polyamide.

Recycle Nylon



- Eco-friendly
- Post-production
- Very good impact strength
- High strength and rigidity
- Saving fresh CPL and use recycled CPL



W-4502-A04

- 95%F.D.Nylon Recycle 5%Spandex Dobby(2-WAY)
- DWR10/70~80%
- Weight: 146GSM±5

Eco Nylon

Marine Debris Nylon



- Recycled from buoy or net
- High strength and rigidity
- Saving fresh CPL and use recycled CPL
- Dimensional ability



W-4882-C90

- 47%Nylon 53%Nylon Recycle OXFORD
- W/R,WP 30,000 m/m,MVP 10,000~15,000 g/m2/24hr
- Weight: 190GSM±5
- 53% BUOY YARN

Eco Nylon



- 37% renewable plant-based ingredients
- Quality assurance
- Eco-friendly
- High strength and soft hand feel

Eco Poly

W-3344-L03

- 53%Polyester 47%Polyester SORONA Twill Stretch(4-way)
- W/R, WP10,000m/m, MVP10,000g/m2/24hr
- Weight: 110 GSM±5%

Bio Polyester



Sorona[®]

SORONA PRODUCT

37% of the polymer is made using annually renewable plant-based ingredients. The revolutionary Bio-PDO compound turns a formerly chemical process into an eco-efficient biological one.

COMPARED TO NYLON 6

Uses **30%** less energy
Releases **63%** fewer
greenhouse gas emissions

COMPARED TO NYLON 6.6

Uses **40%** less energy
Releases **56%** fewer
greenhouse gas emissions



sorona[®]





- 100% recyclable
- Quality assurance
- Recycled from PET bottles.
- With Unifi tags



Eco Poly

W-676-1-L05-A

- 100% Polyester Recycle HI COUNT
- F.C.DWR20/70~80%,WP 15,000 m/m,MVP 15,000 g/m2/24hr
- Wight: 127GSM±5%
- REPREEVE(UNIFI)/RECYCLE TPU(GRS)

Recycle Polyester





- 100% recyclable
- Quality assurance
- Recycled from ocean trash.

Eco Poly

W-4967-T107G

- 100% Polyester Recycle ribstop
- F.C.DWR10/70-80%, WP30,000m/m, MVP 30,000g/m²/24hr
- Wight: 134GSM±5%
- 3L suitable for water sport, rain coat

**Marine Debris
Polyester**

Eco Film



Eco Film

Eco (r)Poly Membrane

WP/MVP: 15K/15K
Elasticity: 300%
Solvent: None
Recyclable: Yes
Embrittlement point: -20~-40°C
Melting point: 180°C

BIO/ RECYCLE TPU

WP/MVP: 15K/15K
Elasticity: 220%
Solvent: None
Recyclable: No
Embrittlement point: - 40°C
Melting point: 150°C

PET

WP/MVP: 10K/10K
Elasticity: X
Solvent: None
Recyclable: Yes
Embrittlement point: - 20°
Melting point: 170°C

Eco Poly Membrane

TPU

PET

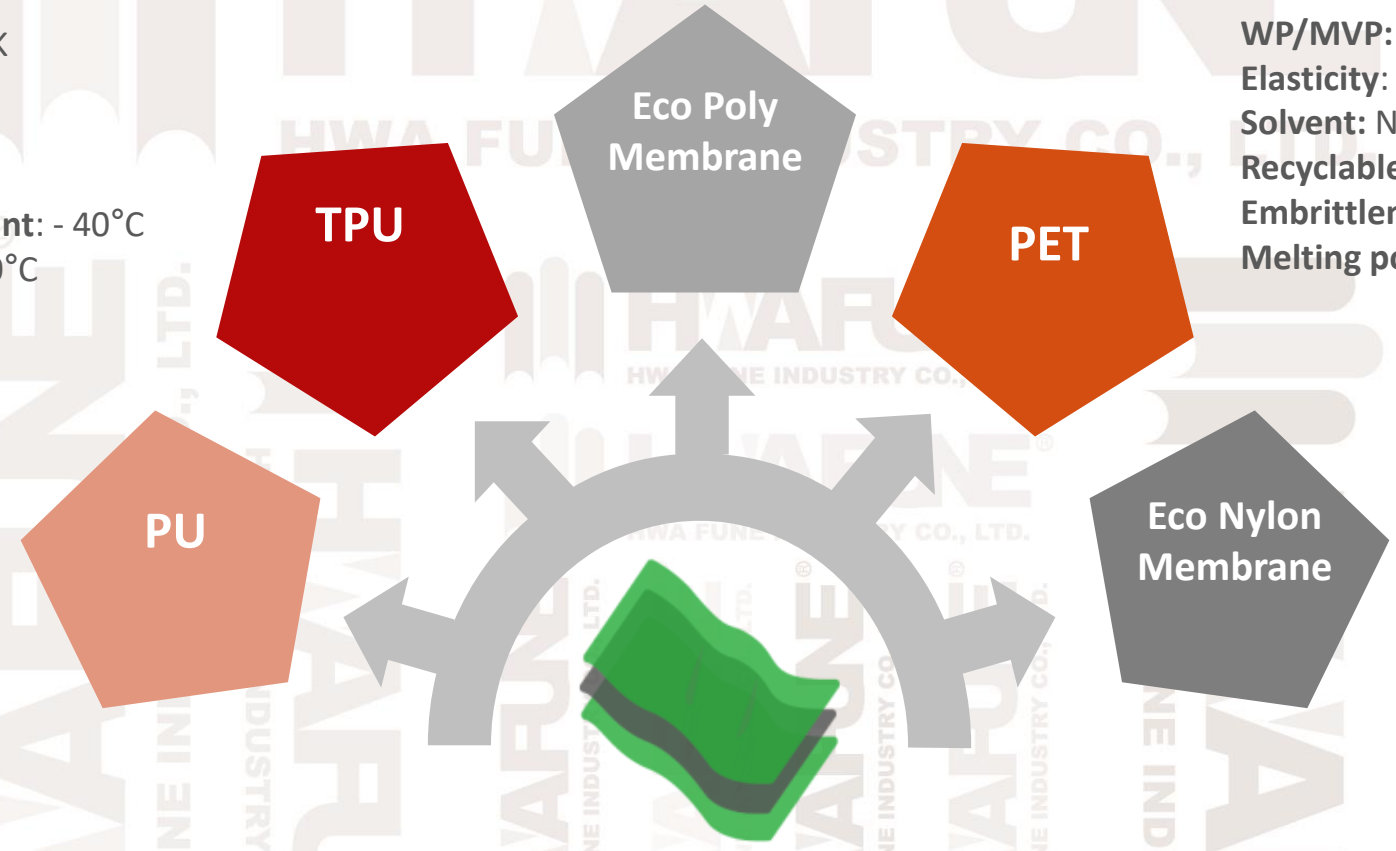
Eco Nylon Membrane

WP/MVP: 10K/10K
Elasticity: X
Solvent: None
Recyclable: Yes
Embrittlement point:- 20°
Melting point: 180°C

BIO/ RECYCLE PU

WP/MVP: 30K/20K
Elasticity: 200%
Solvent: DMF
Recyclable: No
Embrittlement point: - 40°C
Melting point: 170°C

PU



Mix and Match

Eco Fabric

- Bio Nylon
- Recycle Nylon/
Marine Debris Nylon
- Bio Polyester
- Recycle Polyester/
Marine Debris Polyester



Eco Film

- Bio PU/ TPU
- Recycle PU/ TPU
- Eco (r)Poly Membrane
- PET
- Eco Nylon Membrane



Imagine you mix and match our **Eco Fabric** with Eco Film to create a total **Eco Friendly Fabric**~
A combination beyond imagination~



Area of Use

Snow
Outdoor
Urban outfitting
Work wear
Water sport
Cycling



Thank you!

