FENC & RMB

Agenda

1. **FENC staple fiber capacity**

- Staple Fiber Div. Profile (Overall)
- FEIS (Far Eastern Industries (Shanghai))
- FEPV(Far Eastern Polytex(Vietnam))

2. **FENC Hycare roadmap**

- Softer touch & high level Low rewet
- Coarse denier has fine denier touch
- Sustainable:
  - Bio-mass
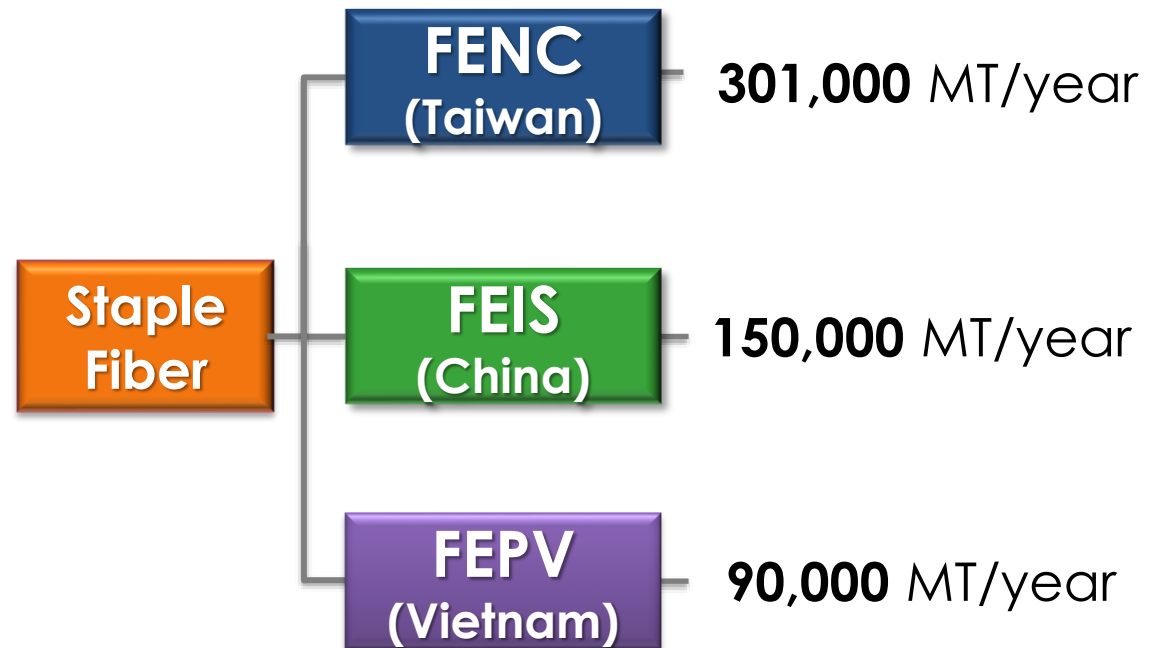 - Bio-degradable
  - Recycle PET
  - Green-Ti (sb free)

3. **FENC new product**

- Antimony free PET series fiber **(Available)**
- New bonding fiber for heavy mattress application **(2021.Q4 will available)**

STAPLE FIBER

Staple Fiber Div. Profile

Shanghai (China)

Hsin-Pu (Taiwan)

FEG Headquarter (Taiwan)

Bình Dương (Vietnam)

- Established in 1970
- More than 1000 workers
- Sales revenue : US$ 760 millions
- Sales volume: 541,000MT/year

Staple Fiber

FENC (Taiwan) — 301,000 MT/year

FEIS (China) — 150,000 MT/year

FEPV (Vietnam) — 90,000 MT/year

■ Expand 1 line for PE/PET fiber in 2023

STAPLE FIBER

FEIS(Far Eastern Industries(Shanghai))

- Established in 1996
- Location : Xinghuo Development Zone
- Area：55.2 Hectares
- More than 1400 staffs & workers
- Main products : PET chips, staple fibers, filament and film.

STAPLE FIBER

FEPV(Far Eastern Polytex(Vietnam))

- Established in 2015
- Location : Bau Bang Industrial Zone (Bình Dương)
- Area : 226 Hectares
- More than 2000 staffs & workers
- Main products : PET chips, staple fibers, yarns and fabrics.

STAPLE FIBER

FENC Hycare roadmap

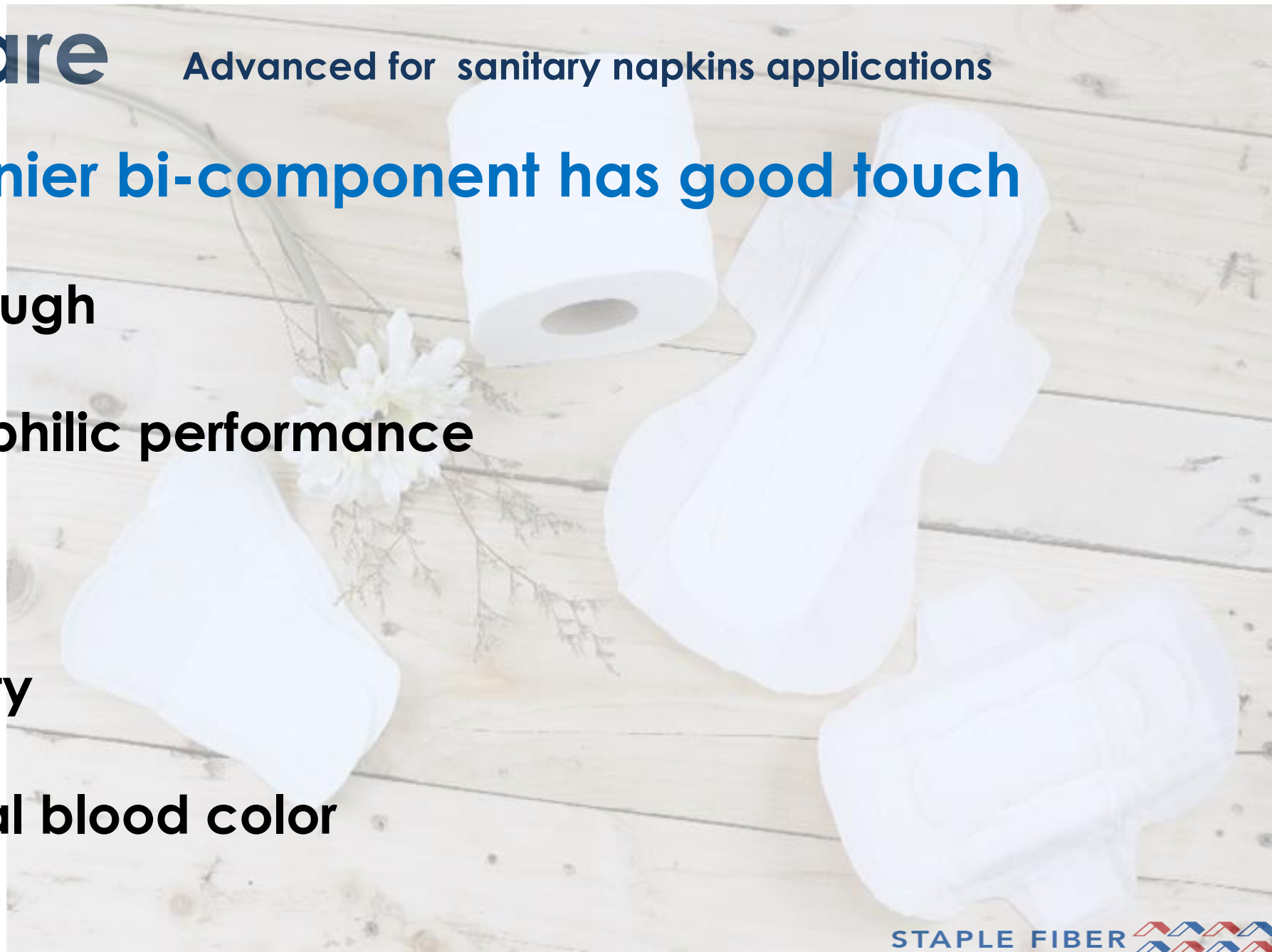| Customer benefit	New Product	Application
Softer touch & high level Low rewet	■ Fine denier Available 0.7^d ET Next step: 0.5^d ET ■ Coarse denier has good touch 3d → 2d 2d → 1.5d	Top sheet Back sheet
Sustainable	■ Bio-mass: Bio-PE、 Bio PET ■ Bio-degradable: FENC bio, PLA ■ Recycle PET ■ Green-Ti (Sb free)	Top sheet Back sheet ADL Wiper(testing)

STAPLE FIBER

FENC® Hycare

Advanced for baby diaper & sanitary napkins applications

Finer bi-component fiber: 0.7^d PE/PET

- **Superior hand feeling**

- **Smooth & Softness**

- **Easy carding**

- **Good skin affinity**

- **Hydrophilic or hydrophobic available**

STAPLE FIBER

FENC® Hycare

Coarse denier bi-component has good touch

- Good strike through

- Excellent hydrophilic performance

- Low rewet

- Good skin affinity

- Lighter menstrual blood color

STAPLE FIBER

FENC® TOPGREEN®

Sustainable

- **Bio series:**
  - ✓ Biodegradable: PLA & FENC- bio
  - ✓ Biomass: Bio-PE , Bio-PET
- **Recycle PET**
- **Heavy metal free**
  - ✓ Green-Ti (sb free)
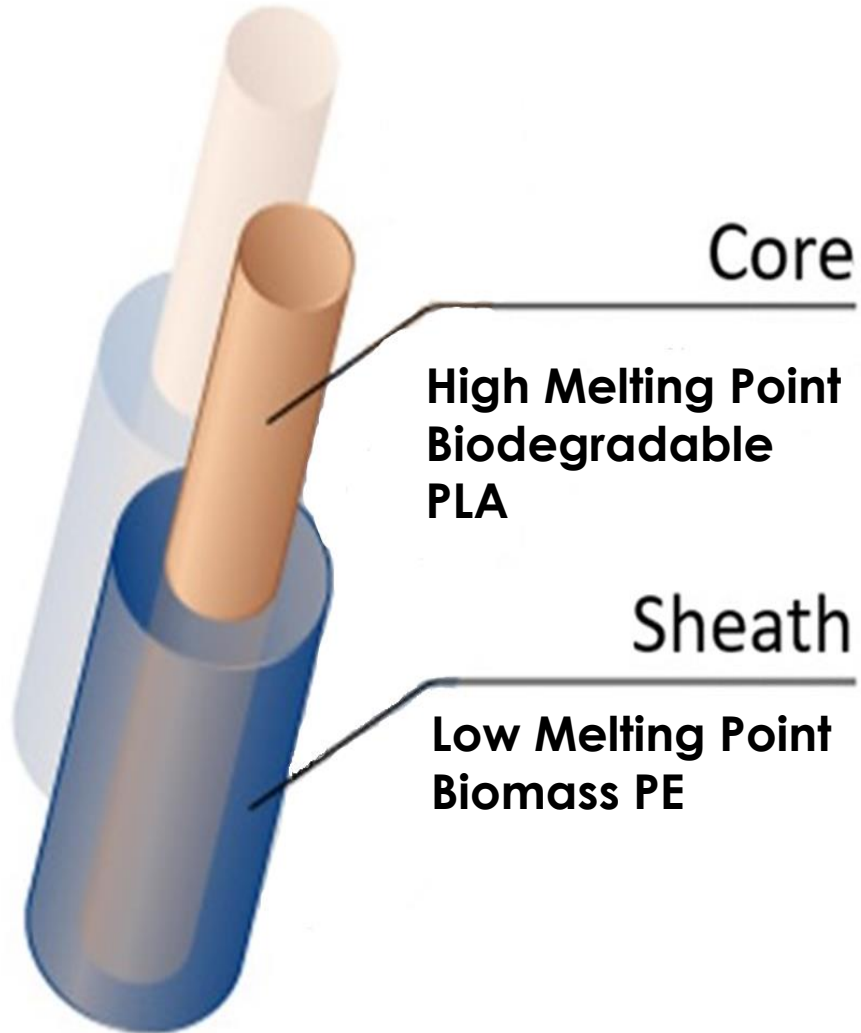
Application

Diapers & sanitary napkins

Food Packaging

Wipers and wet tissues

Benefit of raw material

- **PLA**
  - ✓ Carbon emission <**68%** than PET
  - ✓ Energy used **< 42%** than PET

- **Bio-PE**
  - ✓ Carbon emission <**70%** than PET

- **Bio-PET**
  - ✓ Bio-EG

- **Recycle PET**
  - ✓ Carbon emission <**50%** than PET

- **Green-Ti (sb free)**
  - ✓ Sb content <**10ppm** than normal PET

STAPLE FIBER

FENC Staple Fiber
Biomass fiber

Core — **High Melting Point Biodegradable PLA**

Sheath — **Low Melting Point Biomass PE**

- ✓ Appeal: Energy saving & reduce carbon emissions
- ✓ Property: Biomass
- ✓ Applications: Napkin, diaper, mask & wipes
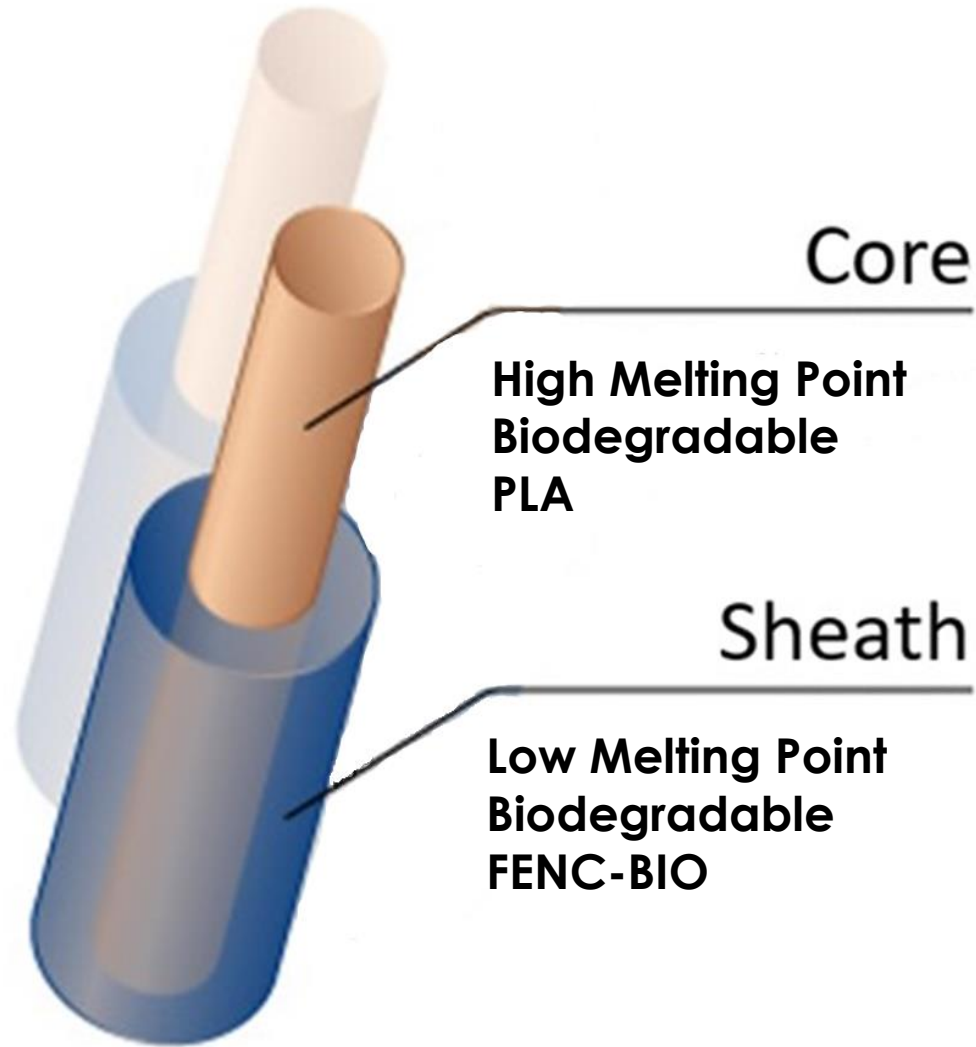- ✓ Advantage: Carbon emissions reduce 70%

Specification

Denier (d)	Length (mm)
1.5~5	38~64

STAPLE FIBER

FENC Staple Fiber
Biodegradable

Core

High Melting Point Biodegradable PLA

Sheath

Low Melting Point Biodegradable FENC-BIO

✓ Appeal: Energy saving & reduce waste

✓ Property: 100% Biodegradable

✓ Applications: Napkin, diaper, mask & wipes

✓ Advantage: Biodegradable

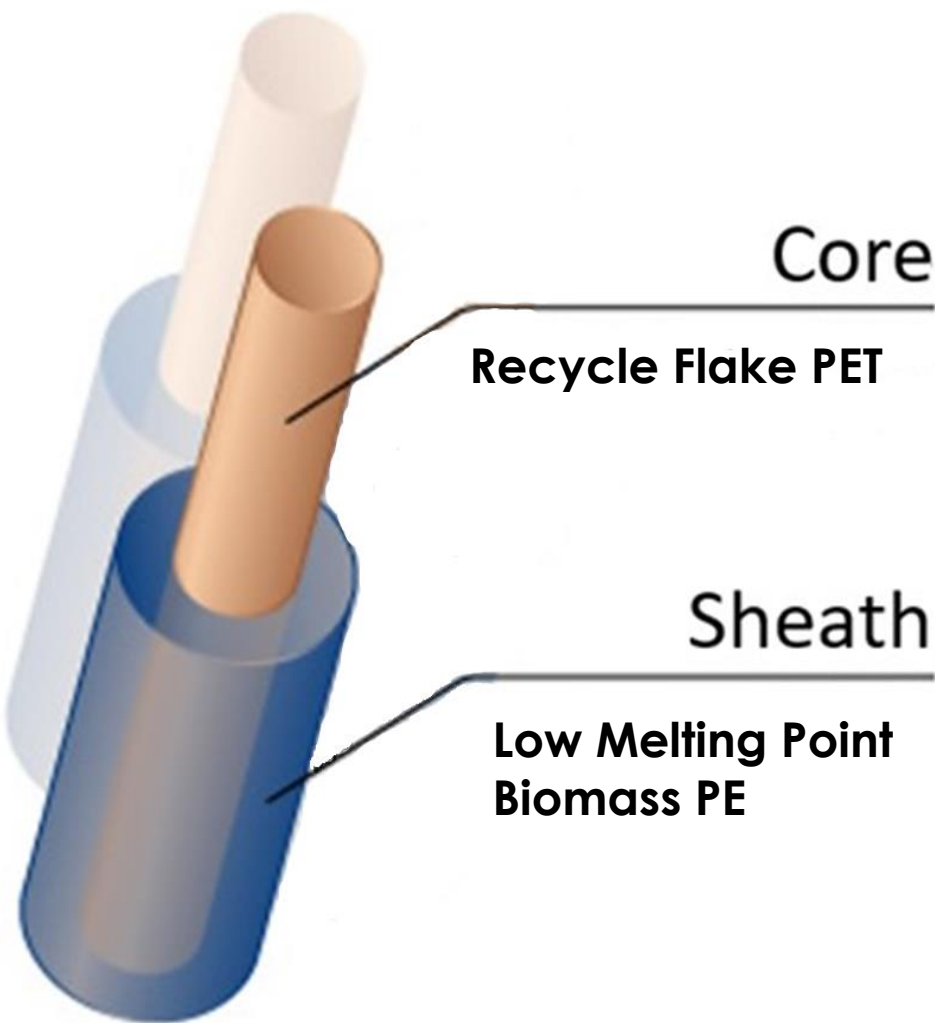(According to ISO 14855-1)

Temperature: 58°C±2 °C
Humidity: 50-55%

- 45days，70% CO_2 changed
- 180days，over 90% CO_2 changed

Specification

Denier (D)	Length (mm)
2-3	38~64

STAPLE FIBER

FENC Staple Fiber
Biomass & Recycle base

✓ Appeal: Energy saving & reduce carbon emissions

✓ Property: 50% Biomass、50% Recycle

✓ Applications: Napkin, diaper, mask & wipes

✓ Advantage: Carbon emissions reduce 60%

Core

Recycle Flake PET

Sheath

Low Melting Point Biomass PE

Specification

Denier (d)	Length (mm)
1.5~5	38~64

STAPLE FIBER

FENC® Green-Ti

Antimony Alternative Catalyzed PET Staple Fiber

- Antimony (Sb) catalyst is a kind of heavy metal.

- FENC develop a new process:
  Titanium catalyst for greener production.

- Good for human & environment.

- Suitable for Hygiene, Low melt & Conj. Fiber.

New bonding fiber for heavy mattress application

Advantage:

- Thermal keeping

- Recovery

- Supportive

Schedule:

- November can evaluate N.W. property.

- 2021.Q4 production line will available.

STAPLE FIBER

Thanks For Your Attention!