

Packaging solutions

FOR MEDICAL DEVICE MANUFACTURERS

| Medical Paper and Breathable Webs | Heat Sealable Films | Protection Wraps and Drape Fabrics |

www.sterimed.fr

STERIMED
INFECTION CONTROL



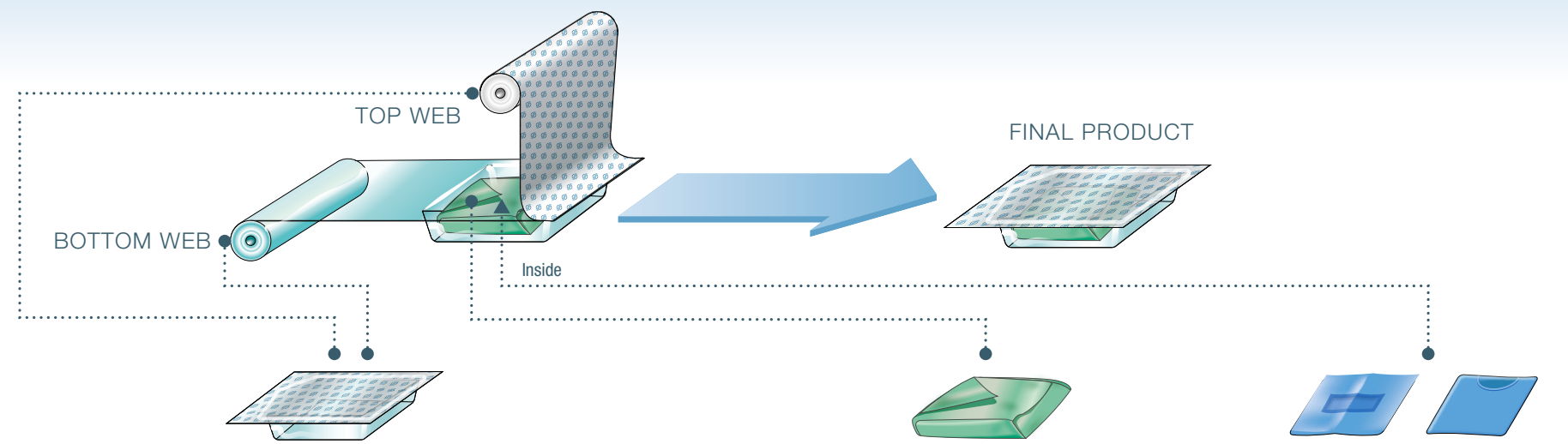
Packaging solutions
FOR MEDICAL DEVICE MANUFACTURERS

STERIMED key features:

1,200 employees
100% healthcare dedicated facilities
10 factories (US, Europe, China, Mexico, Czech Republic)
22 sales offices
Healthcare dedicated R&D, Customer Technical Support and Regulatory Affairs Departments

COMPLETE PACKAGING SOLUTIONS
designed for Medical Device Manufacturers

Sterilizable materials for Form Fill Seal and Four Side Seal packaging lines, completed with with Inner protection solutions for your medical devices inside the sterile barrier packaging.



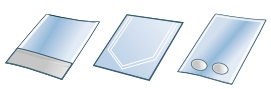
STERILE BARRIER SYSTEM



- TOP WEB
  - Ethypel®
    Coated / Surface treated
    Direct seal
  - Polybond®
    Coated / Surface treated
  - Ethypel®-S
    Direct seal
  - Polybond®-S
    Surface treated

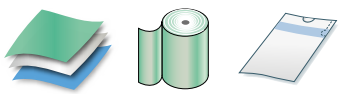


- BOTTOM WEB
  - EthyFlex®
    Flexible non formable
  - EthyForm®
    Flexible formable



- PRE-FORMED PACKAGING
  - Peel pouches
  - Header bags
  - Vent bags

MEDICAL DEVICE PROTECTION



- INNER PROTECTION SOLUTIONS
  - EthyWrap®
    Inner wraps
  - SteriReel®
    Wrapping materials in reels
  - EthyWrap® Inner bags
    Paper bags

MEDICAL DEVICE MANUFACTURING



- NON WOVENS FOR DRAPES & GOWNS
  - SteriReel® DF
    Roll stock

Compliant to:
- EN ISO 11607-1 : 2020
- EN 868-6 : 2017
- EN 868-7 : 2017

STERIMED offers a complete line of products to medical device manufacturers

- Breathable sterilizable microbial barrier webs (Ethypel®, Polybond®)
- Formable and flexible heat sealable film materials (EthyForm®, EthyFlex®)
- Inner protection solutions for single use medical devices (EthyWrap®, SteriReel®)
- Reels for manufacturing of drapes and gowns (SteriReel® DF)

Materials for Sterile Barrier Systems



ETHYPEL® POLYBOND®

TOP WEB PACKAGING MATERIALS

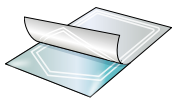
Breathable sterilizable microbial barrier webs

A full line of renewable ressources-made coated, surface treated, and direct seal materials for all types of medical devices. Select your material based on medical device design and weight, packaging line technology and running speed.

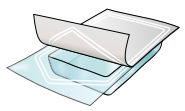
EO Sterilization

IRRADIATION Sterilization

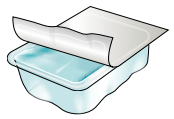




Flexible non formable packaging



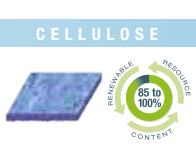
Flexible formable packaging



Semi-rigid tray applications

ETHYPEL®

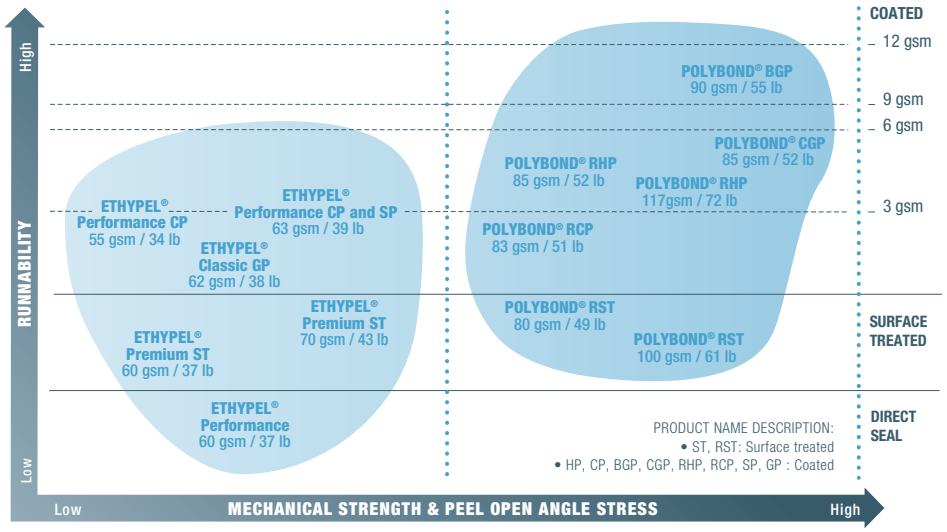
Natural fibers



POLYBOND®

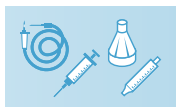
Natural fibers with synthetic binding







Wound care • Gloves



Gauzes • Syringes • Pen needles • Tubings • Pipettes



Drapes • Gowns • Catheters IV sets • Sutures



Custom procedure kits Surgical instruments

PACKAGED MEDICAL DEVICES

Light Weight / Small Size — PACKSTYLE — Heavy Weight / Large Size

STEAM Sterilization

Our Polybond® and Ethypel® ranges include steam sterilization options.

- Ethypel®-S, natural fibers surface treated material available in 60 gsm (37 lb) and 112 gsm (69 lb) for steam sterilization processes - sealing to PP-film layer.
- Polybond®-S , reinforced 112 gsm (69 lb) surface treated material for steam sterilization processes.

ETHYFLEX® ETHYFORM®

BOTTOM WEB PACKAGING MATERIALS

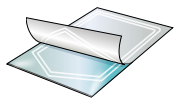
Non breathable sterilizable barrier webs

Our new range of flexible formable and flexible non formable film materials are designed and validated to ensure the safety of your medical devices, a higher processability, and optimal match with our top web materials Polybond® and Ethypel®.

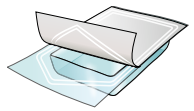
EO Sterilization

IRRADIATION Sterilization





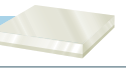
Flexible non formable packaging



Flexible formable packaging

ETHYFLEX®

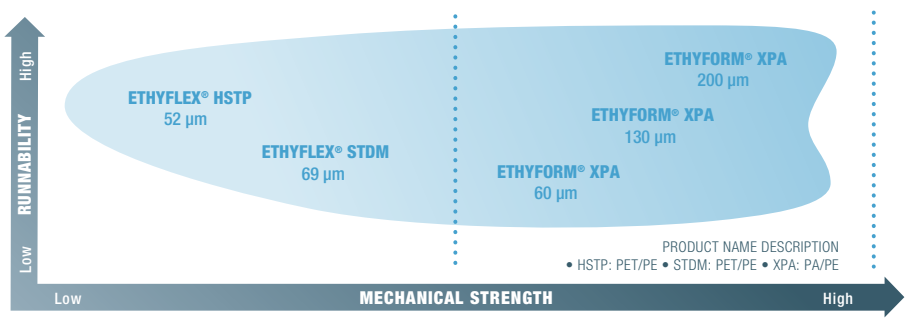
Medical Applications films



ETHYFORM®

Medical Applications Formable films







Wound care • Gloves



Gauzes • Syringes • Pen needles Tubings • Pipettes



Drapes •Gowns • Catheters • IV sets • Sutures

PACKAGED MEDICAL DEVICES

Light Weight / Small Size — PACKSTYLE — Heavy Weight / Large Size

EthyFlex® PET/PE films are designed for Four Side Seal or Platten sealer technologies:

- EthyFlex® STDM is a 69 µm PET/PE material (12/51) designed for common flexible non formable packaging applications, and a wide range of flat-pouch packaged medical devices
- EthyFlex® HSTP is a 52 µm PET/PE highly reactive material that is specially engineered for high speed processes (up to 60 m/min) and medium to lower weight devices, such as dressings.

EthyForm® XPA range of PA/PE films is our newest offer for flexible formable packaging running on Form Fill Seal lines. Designed and produced in-house by our Green Sail teams in China, EthyForm® XPA series offer versatile options:

- 60 µm to 200 µm standard thicknesses are available to best match you medical devices requirements
- combinations to pure cellulose and reinforced top webs are identified, and optimized combinations to our Polybond® and Ethypel® top webs are qualified by our labs.

Full Packaging Solutions



INNER PROTECTION SOLUTIONS

Sheeted and preformed protective materials to protect your devices without impacting the sterilization efficacy



• **The ETHYWRAP® sheets** are made of up to 100% renewable raw material resources. They are available in blue, green or white according to grade and size.

CELLULOSE SHEETS: 100% cellulose materials
- EthyWrap Ce 45 - White | Green
- EthyWrap So 60 - White | Green | Blue
- EthyWrap Ce 60 - White | Green | Blue





POLYMER REINFORCED: cellulose reinforced with synthetic binders
- EthyWrap Rf 52 - Blue
- EthyWrap Rf 60 - Blue | Indigo





NON-WOVEN: combination of cellulose, synthetic fibers and binders
- EthyWrap NW 57 - Blue | Green
- EthyWrap NW 60 - Blue





SMS: 100% synthetics PP fibers
- EthyWrap dl 40 - Blue | Green
- EthyWrap dl 70 - Blue



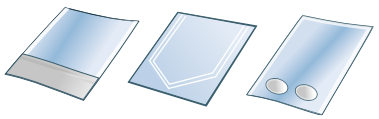


• **STERIREEL®, wrapping materials in reels:** STERIMED offers inner protection reels format for Inner packaging within sterile barrier system. Many formats and customized solutions exist for your specific need.

• **ETHYWRAP®, Inner bags:** Ready to use for single use and reusable devices. Our Paper Bags help you to control porosity for the best possible bacterials barrier results.

PRE-FORMED PACKAGING

Solutions for flexible handling



STERIMED offers a full range of preformed sterile barrier systems, for ethylene oxyde, irradation, and steam sterilization, based on proprietary high performance top webs Polybond®, Ethypel®, and Propypel®.
Adapted to medical devices requiring manual handling such as Surgical Custom Trays, or starting up new product lines, STERIMED offers customized peel pouches, header bags, and vent bags options.

POLYBOND® HEADER BAG : THE 1ST CELLULOSE BASED HEADER BAG WITHOUT PLASTIC WINDOW:

Our preformed SBS option include the first header bag with a cellulose-based breathable strip. Designed to reduce environmental impact, the header bag is made out of our Polybond material, a bio-based carbon solution.



TOP TO BOTTOM WEB STERILE BARRIER SYSTEMS

Optimized and single sourced packaging for your medical device



STERIMED offers a unique complete range of in-house developped and produced top to bottom web solutions for sterile medical devices. Those full Sterile Barrier Systems (SBS) are developped and qualified for optimal:
- safety - microbial barrier efficiency, mechanical strength
- processability - operating window on packaging lines, stability
- seal and peel performance - top and bottom web optimized combinations.

Proprietary sealing technologies for cellulose-based porous substrates from STERIMED include a full range of coated, surface treated and direct seal materials and their mating films for Form Fill Seal, Four Side Seal, and Platten sealer packaging lines.

Top to Bottom Web Solutions:

STERIMED created qualified combinations to widely cover the medical devices flexible packaging needs spectrum, leveraging its Polybond® and Ethypel® top web technologies and its new films range EthyForm® XPA flexible formable films and EthyFlex® flexible films.

Our qualified combinations include:

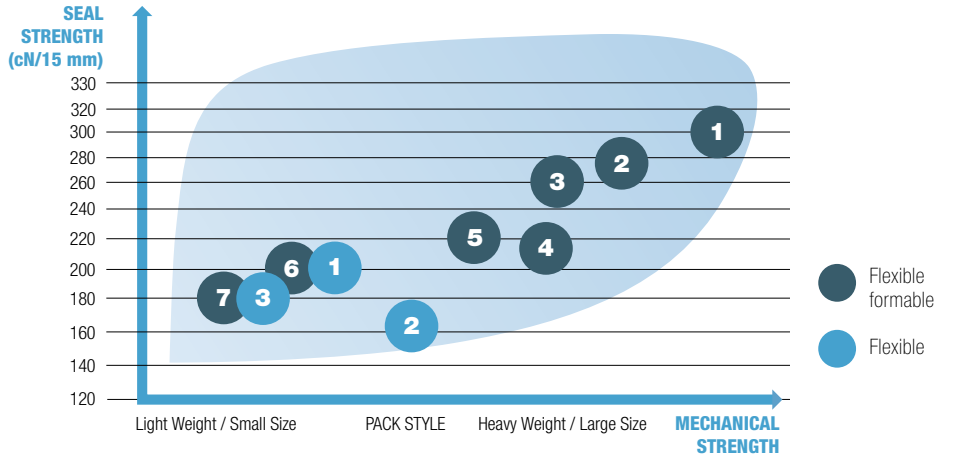
FLEXIBLE FORMABLE

1 - Polybond RHP 117 gsm	to	EthyForm XPA 200 µm
2 - Polybond BGP 90 gsm	to	EthyForm XPA 200 µm
3 - Polybond RHP 85 gsm	to	EthyForm XPA 130 µm
4 - Polybond RCP 83 gsm	to	EthyForm XPA 130 µm
5 - Polybond RST 80 gsm	to	EthyForm XPA 120 µm
6 - Ethypel Classic GP 62 gsm	to	EthyForm XPA 80 µm
7 - Ethypel Performance 60 gsm	to	EthyForm XPA 90 µm

R = Reinforced
ST = Surface Treated
HP/CP/SP/GP = Coated

FLEXIBLE

1 - Ethypel Performance CP 63 gsm	to	EthyFlex HSTP 52 µm
2 - Ethypel Performance SP 63 gsm	to	EthyFlex HSTP 52 µm
3 - Ethypel Performance CP 55 gsm	to	EthyFlex HSTP 52 µm



STERIMED, your Infection Control Partner

- Largest range of sterilization packaging substrates in the world
- Sales in more than 70 countries
- Packaging education programmes for medical device industry and hospital staff

Seminars & training

STERIMED has created the « Shared, a Sterimed Experience » program to create an opportunity to share the knowledge on medical devices packaging and hospital sterilization with our customers.
We aim to create a sustainable and durable relationship with our community, and through seminars, webinars, information and experience sharing, improve patients safety together.

www.sharedbysterimed.com

Compliance: Our products comply with strict regulations and standards, ensuring maximum protection for patients and hospital staff: ISO 11607-1:2019

Environmental performance

- Porous products manufactured from renewable sustainable recyclable raw materials
- ISO 50001 certification
- Directly from base web manufacturing facility to your operations, without need for third party converting

Safety for your medical devices: **100% dedicated healthcare premises**

- Quality management system developed for healthcare packaging operations
- Staff education and mindset purely focused on medical device industry requirements
- Minimized risk of cross contamination thanks to fully specialized healthcare production sites
- ISO 13485 certified production sites

Integrated operations for best possible value propositions based on your packaging needs.

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STERIMED INFECTION CONTROL
www.sterimed.fr

STERIMED, complete solutions for:
- MEDICAL DEVICE MANUFACTURERS
- CONVERTERS
- PATIENT CARE FACILITIES

STERIMED®, ETHYPEL®, PROPYPEL® , STERISHEET®, POLYBOND®, ETHYFLEX®, ETHYFORM®, CRYPTOPAK®, STERIWEB®, STERI FEUILLE®, STERIREEL®, 斯迪迈®, 舒卫安®, 蒸洁安®, Стеримед®, Этипель®, Пропипель® are all brands of STERIMED.

MARCH 2024