PPC FLEX

HEALTHCARE PACKAGING

MEDICAL | HEALTHCARE | LIFE SCIENCES

PURPOSEFUL. POWERFUL. PACKAGING.®

Tyvek
DUPONT
PPCFLEX

PPCFLEX PRECISION CLEAN®
HEALTHCARE PACKAGING

STERILIZABLE CLEANROOM PACKAGING

- Pharmaceutical
- Medical/Dental/Healthcare/Life Sciences
- Clean Room Consumables
- Critical Environment Components
- Microelectronics
- Nutraceuticals

ISO CERTIFIED CLEAN ROOM QUALITY SYSTEM, CERTIFIED TO NASA, IEST AND MILITARY SPECIFICATION

- Our Clean Room manufacturing facilities are certified to Class 4 and Class 7
- Our Quality Management System complies with ISO 13485, ISO 9001:2015, SQF Level 2
- Our products meet NASA, IEST, and Military Specifications

SQF LEVEL 2 CERTIFICATION

CERTIFIED ISO 9001:2015 COMPANY

Quality ISO 9001 SAI GLOBAL

PRECISION CLEAN®
VALUE PROPOSITION

- Manufactured in ISO class 4 & 7 Clean Rooms
- Industry **quality leader**
  - Providing consistent product, in specification at exceptional quality rejection rates (under .4%). Stock standard packaging solutions in various sizes
- Measurable **OT IF** (on time in full) deliveries at **95%** or better
- Short lead times with stock material on hand (PC11, PCLLDPE, LLDPE, HDPE, Coated and Uncoated Tyvek PET, Nylons, Sustainable options)
- High touch customer service and communication with dedicated Sales and Customer Service support for:
  - A high level of PPC capability knowledge
  - Strong understanding of customer markets and application needs
  - VMI Programs
  - Warehousing in environmentally controlled environment
  - Innovative service programs
  - **Speed to market beyond our competitors**
  - Innovation/product development
- Solutions that give customers a competitive advantage

PRECISION CLEAN® BREATHER BAGS, HEADER POUCHES, AND CHEVRON POUCHES

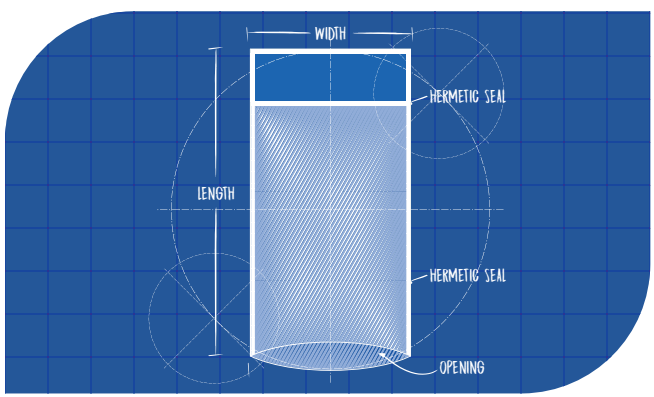
- **BREATHER POUCHES** - Tyvek-based non-peel pouches (1059B, 1073B, 2FS, 1422A)
- **HEADER POUCHES** - Tyvek or Coex window formats with peel and non-peel formats
- **CHEVRON PEEL POUCHES** - for easy access and sterile presentation
- Tape closures
- For gamma, steam, EtO (ethylene oxide), hydrogen peroxide (VHP), and Critical CO2 sterilization ready
- IPA and chemical resistance inks
- Manufactured in ISO Class 7 and Class 4 Clean Rooms

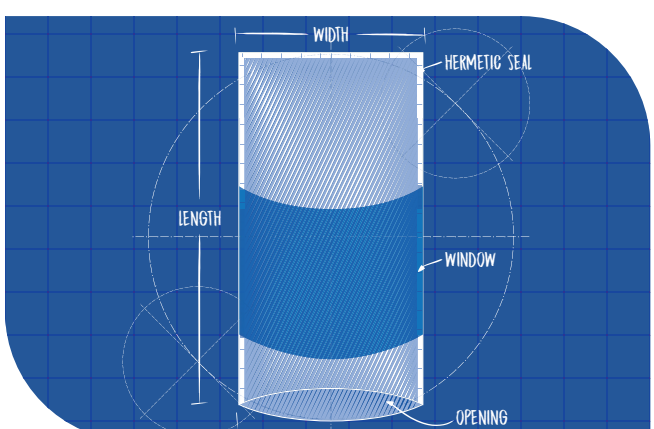
PRECISION CLEAN® HEADER AND WINDOW POUCH

- PE/PE, PE to Tyvek, or Tyvek-Based construction
- Compatible with Ethylene Oxide and Steam Autoclave, Gamma, Ebeam and Xray irradiation

• HEADER POUCH SIZE CAPABILITY

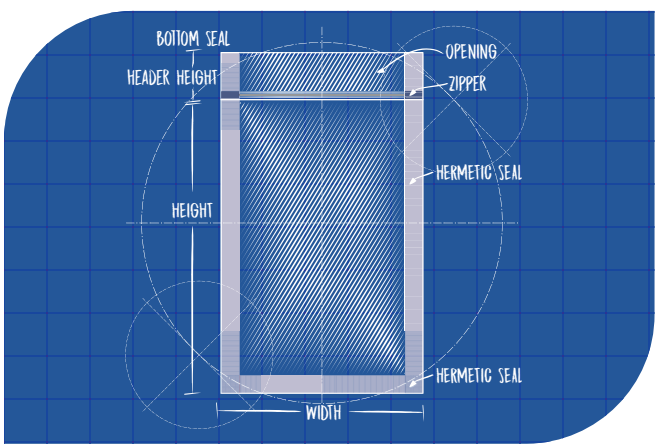
- Width: 2” up to 48” wide
- Length: 8” to 48” long

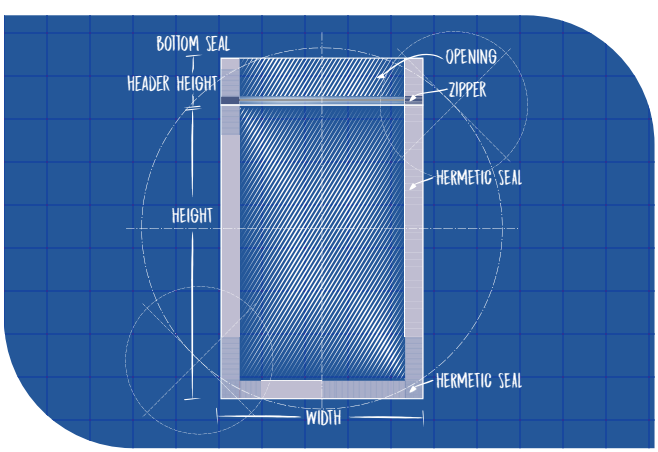




PRECISION CLEAN® BARRIER POUCHES

- Compatible with Ethylene Oxide and Steam Autoclave, Gamma, Ebeam and Xray irradiation
- **STAND-UP POUCH SIZE CAPABILITY**
- Width: 4” up to 48” wide
- Length: 4” to 48” long



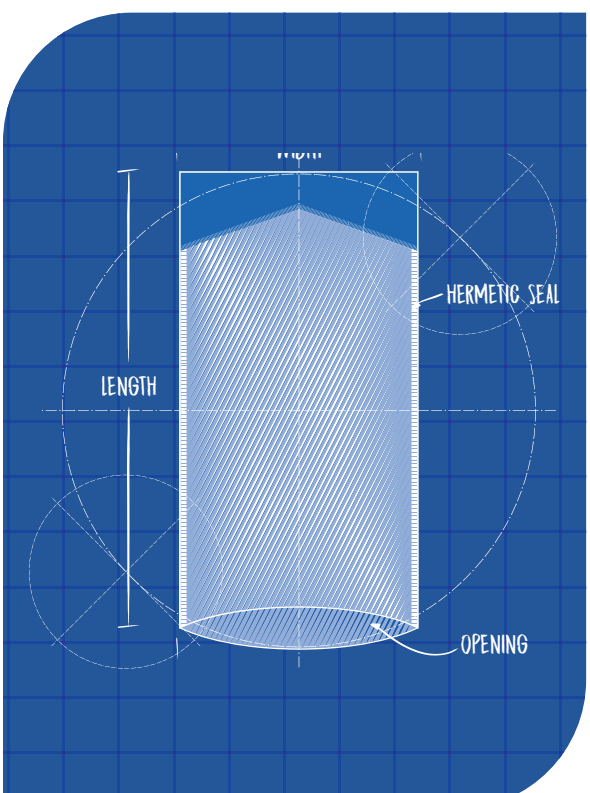


PRECISION CLEAN® CHEVRON POUCH

- Compatible with Ethylene Oxide and Steam Autoclave, Gamma, Ebeam and Xray irradiation

• CHEVRON SIZE CAPABILITY

- Width: 2” up to 35” wide
- Length: 4” to 60” long
- Chevron on a roll
- Chevron with Tyvek header

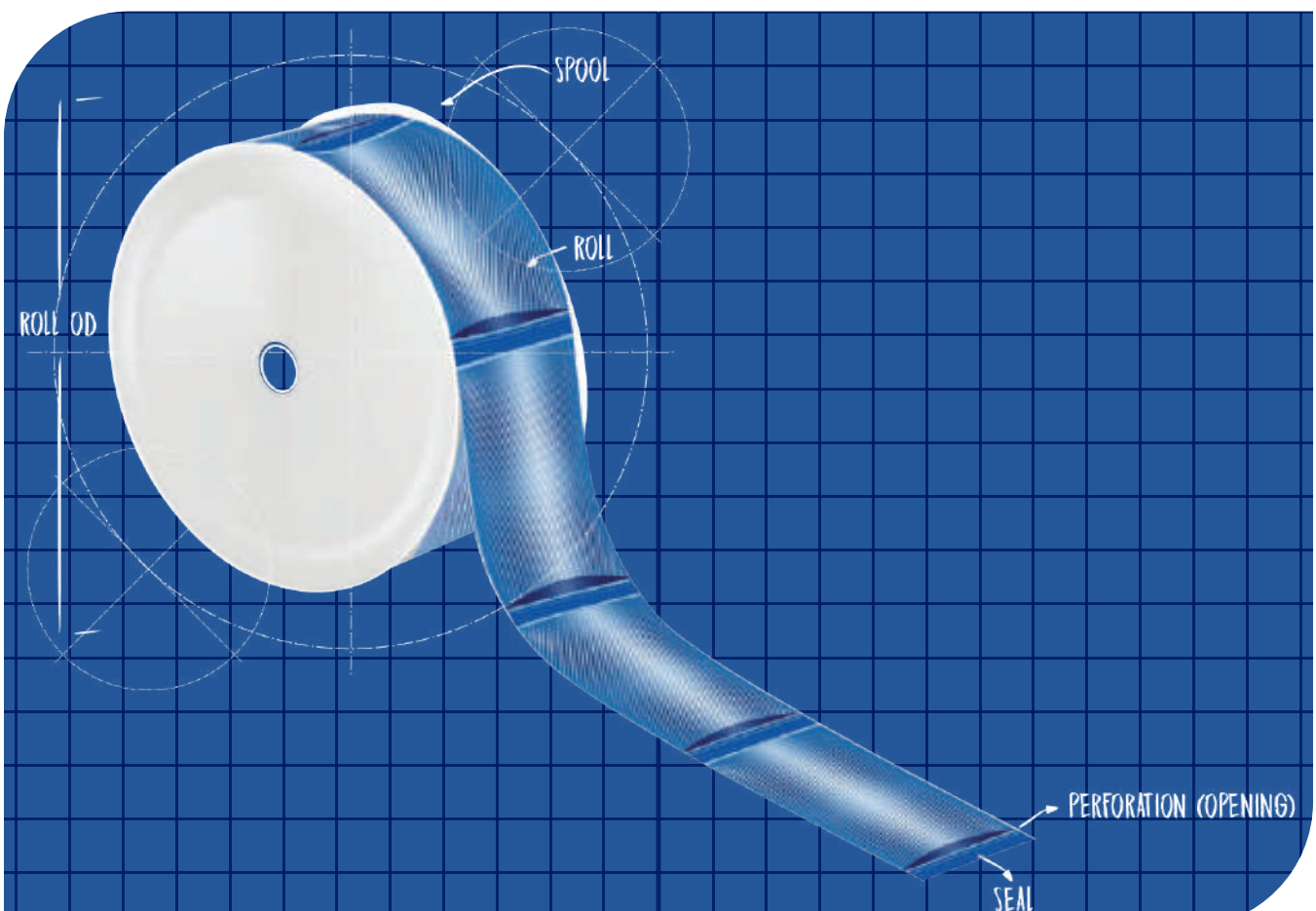


PRECISION CLEAN® AUTOBAG ON ROLL

• AUTOBAG ON ROLL SIZE CAPABILITY

• Width: 4” up to 23.5” wide

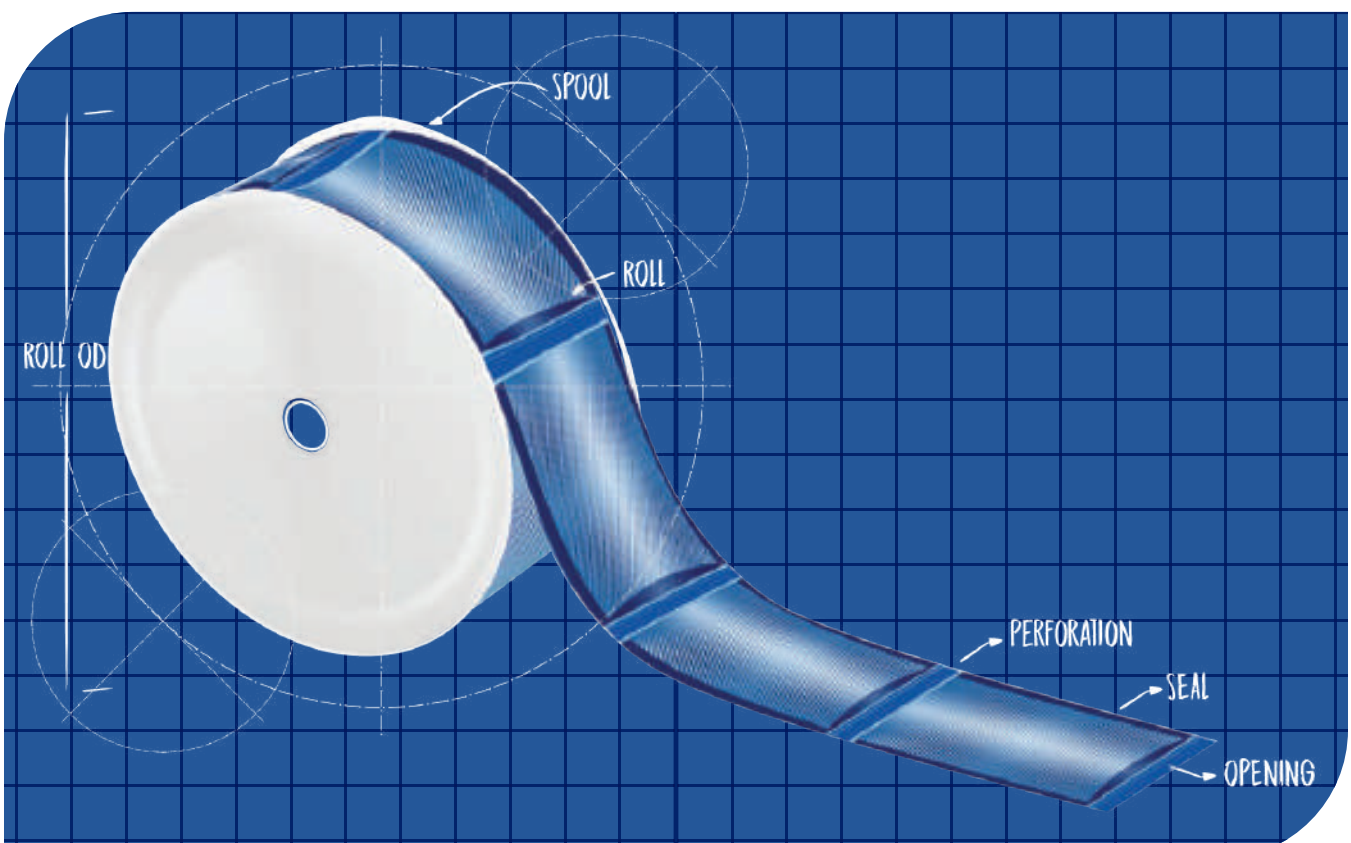
• Length: 4” to 48” long



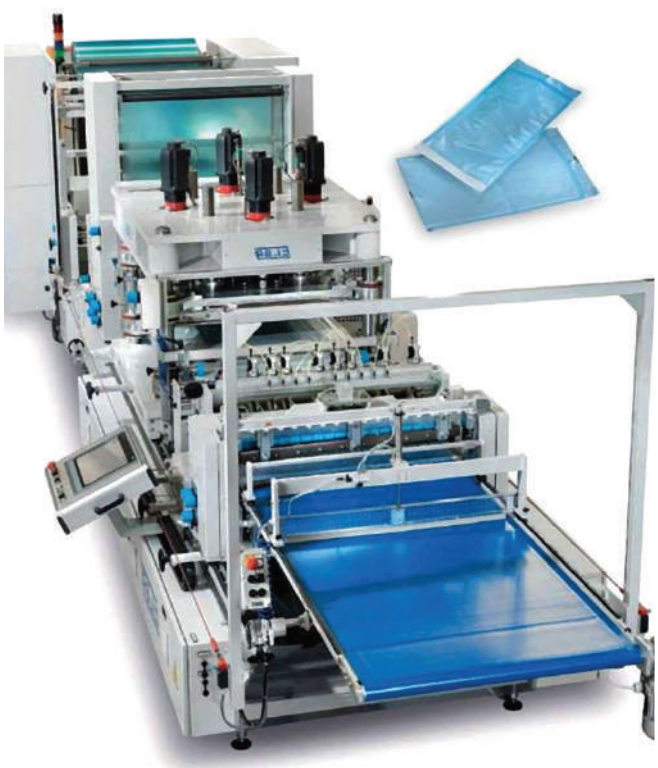
PRECISION CLEAN®
POUCH CHEVRON ON ROLL

• POUCH ON ROLL SIZE CAPABILITY

- Width: 2” up to 35” wide
- Length: 4” to 60” long
- Hermetic seal
- Independent top and bottom webs



Chevron Pouch Line, Pouch on a Roll, &
Chevron on a Roll. Chevron Pouch with Header



State-of-the-art Header Pouch machines adding 3x previous capacity. Wide format to 1200mm

PRECISION CLEAN® TYVEK GOODS

- PPC FLEX IS an authorized dupont™ Tyvek distributor
- Medical grade coated/uncoated rollstock
- 1422A, 2FS, 1059B, 1073B
- Unprinted and printed with up to 10 colors
- Converted rollstock to 55”, 28” OD
- Converted:
  - Sheets
  - Covers
  - Tyvek to Tyvek pouches

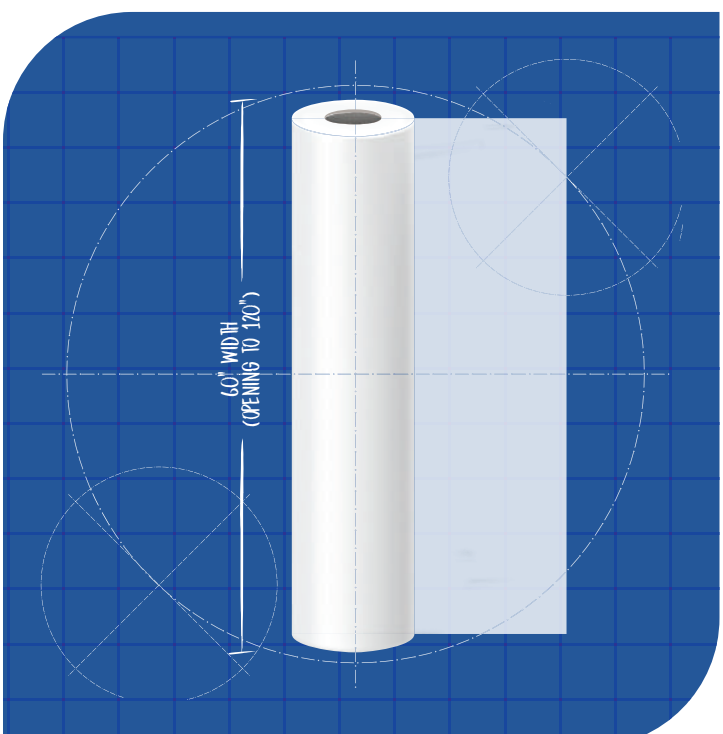
PRECISION ZIP CLEAN® BARRIER POUCHES

- **ISO CLASS 7**
- High barrier lamination and Coex films
- 3 side seal, side gusset, bottom gusset formats
- Zipper and tape closures available
- Printed up to 10 colors
- Gamma Compatible
- IPA and chemical resistance available
- Laser Scoring
- Frangible

PRECISION CLEAN® ROLL GOODS
WITH DIE CUT OPENINGS AND AFFIXED LABELS

ROLLSTOCK

- Precise die cut openings affixed to the web for peel-and-sealable packages
- Saturated and unsaturated applications
- Printed and unprinted formats available
- Suitable for cleanroom consumables



PRECISION CLEAN® RECLOSABLE POUCH

- Tear notches and tear slits
- Scoring or perforating
- Press and seal zippers
- Chemical resistant
- Printed and unprinted formats available
- Suitable for cleanroom consumables

PRECISION CLEAN® FILM AND BAGS

- **CLEANROOM BAGS, TUBING AND SHEETING** – ISO Class 4, KSC Level 100 materials
- Printed in up to 10 colors. IPA resistant inks
- Ultra clean and pure applications utilizing virgin resin
- Bottom seal (tubing), side-weld, twin seal (lemo), side gusset, and bottom gusset, BOR, auto-bag, wicket
- Utilized for medical devices, surgical implants, and tools (orthopedics), semiconductor (anti-static), cleanroom consumables, clean plastic molded, glass, metal parts and containers

10 FACTS OF CLEANROOM PACKAGING

Understanding Flexible Packaging for Clean Rooms

1. All of PPC Flexible Packaging's Precision Clean® cleanroom products are produced in our **state-of-the-art ISO Class 4 and ISO Class 7 CleanRoom.**

3. To ensure the **highest standards of traceability and quality**, each order is manufactured from its own exclusive base of raw material.

6. **Precision Clean Barrier Pouches®** are ideal for sustaining **long shelf life** and **applications requiring moisture and oxygen protection.**

7. **Precision Clean-Tear®** bags are specially designed to **smoothly tear open, allowing quick, easy,** and **sanitary access** to packaged cleanroom products without having to use scissors or a razor blade.

9. Surface Cleanliness certified through **Kennedy Space Center standards.**

2. Our **Precision Clean Packaging** is already in your production facility. **ASK US HOW!**

4. ISO 9001:2015
SQF LEVEL 2 CERTIFIED

5. **Precision Zipclean Pouches:** Designed for **multi-entry** use applications, and the needed convenience for your customer's handling of your bulk products under cleanroom conditions.

8. **PPC** manufactures a wide variety of **substrates** to meet your **physical property and handling requirements.**

10. **Precision Clean Breather Bags** are a family of **sterilizable** pouches, Window ,Header & Chevron, for both **peel and non-peel applications.**

CONSUMER PRODUCTS PACKAGING TYPES PRODUCED

- Printed and/or laminated roll stock
- All non foil film and film combinations
- Printed Shrink bundling film
- Printed PVC and polyolefin shrink film
- Post print folding available at80 gauge minimum
- SUP's with & w/o zipper. 8" gusset max
- Insert bottom gusset available print 1side only up to 38" long
- 2 side print pouches formed from1web-48" max web
- Back seam and side gusset back seam
- Quad seal side gusset
- Formed from1web48" web max.. 8" gusset max
- 3 side seal
- 2 side print formed from 1web -48" web max- limit 24" long, 48" wide
- Min 3" x 3". Gusset 1.5"- 8" max. includes seal
- Unprinted no zipper options, up to 38" x 72"
- Printed and unprinted bags
- Twin seal, gusseted, bottom seal, side weld, wicket, header, die cut handle, tape closure
- 3" x 3" to 48" x 48" size ranges
- Laser score technology for easy tear

WE CREATE POWERFUL PACKAGING EXPERIENCES
CALL US TO SPEAK WITH A PACKAGING PARTNER

YOU AND PRECISION CLEAN STOCK PRODUCTS

Best in class full line of Precision Clean® materials in a wide range of sizes, custom-made to fit your requirements:

PRECISION CLEAN AUTOMATIC CLEANROOM BAG®

Our complete line of cleanroom and industrial pre-opened bags on a roll are ideal for automated or semi-automated fill processes.

PRECISION CLEAN BARRIER POUCHES®

Exceptional barrier properties ideal for sustaining long shelf life and applications requiring moisture and oxygen protection.

PRECISION CLEAN 2000™

PC2000 bags are manufactured from ultra-pure and pristine resins with excellent clarity.

PRECISION CLEAN II®

PCII is also our most popular film, preferred by 80% of our clean environment customers.

PRECISION CLEAN I®

PCI is specifically designed to service less critical cleanroom fill operations that need films with Surface Cleanliness Level 200 or higher.

PRECISION STAT®

Made of our amine-free antistatic film, which makes them ideal for applications in electronics, semiconductors, aerospace, or cleanroom products requiring a clean antistatic film.

PRECISION ZIPCLEAN POUCHES®

Our certified clean Precision ZipClean Pouches have a zipper closure system that is ideal for clean room environments.

PRECISION CLEAN BREATHER BAGS®

Designed for sterilization of products used in cleanroom environments.

PRECISION CLEAN NYLON®

Durable puncture resistance, a first-class oxygen barrier, and excellent clarity.

PRECISION CLEAN HD®

Our NASA-certified Precision Clean HD® bags are our cleanest, most durable bags.

PRECISION CLEAN-TEAR®

Precision Clean-Tear® bags are specially designed to smoothly tear open, allowing quick, easy, and sanitary access to packaged cleanroom.

PRECISION CLEAN CENTERFOLD®

Used throughout the world in all major cleanroom construction projects to protect installations and partition new cleanroom areas during compliance cleaning procedures.

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