



Parker domnick hunter has expanded its DuraPure™ bioprocess container line into an integrated fluid-handling system designed for durability and purity.

Each system is designed to seamlessly integrate with the rest of your process, whether it is going from media prep to cell culture, or ultra-filtration to final fill. DuraPure™ bioprocess container systems are available with the 2-ply DuraPure films, or the single-ply DuraPure™ C93 film.

DuraPure™ containers are offered in sizes ranging from 1L to 2000L in 3 dimensional bag designs. For 2 dimensional pillow bags the sizes range from 50ml to 200L. The product contact layer of the 2-ply DuraPure™ container is made of a LDPE (Low Density Polyethylene) film, and the external layer is made of a LLDPE film (Lineal Low Density Polyethylene) film.

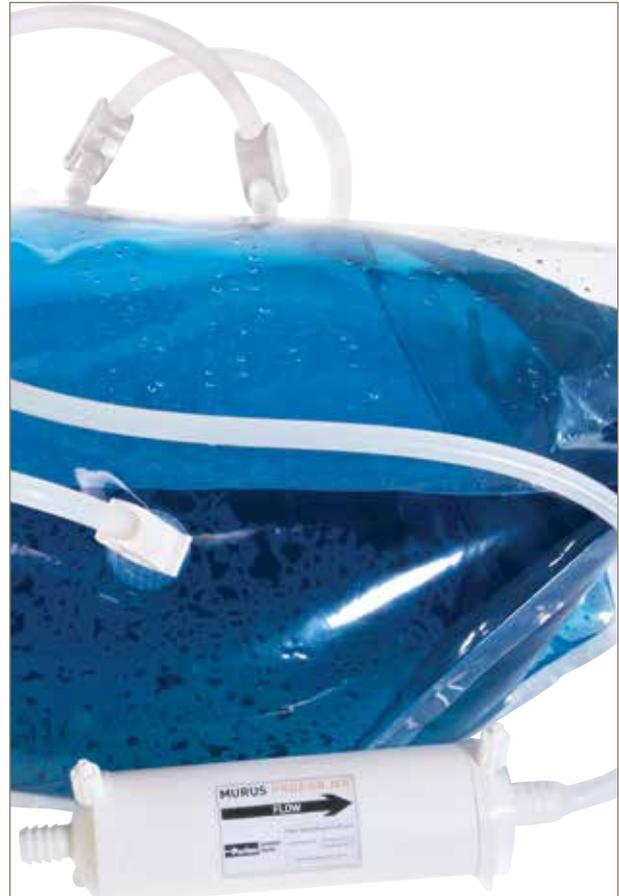
DuraPure™ C93 film is a high purity coextruded biopharmaceutical-grade film designed to provide the best combination of strength, flexibility, inert product contact and gas barrier. The product contact layer is ultra low density polyethylene (ULDPE). The gas barrier layer is polyethylene vinyl acetate copolymers (EVOH).

### Features and Benefits

- 2D & 3D DuraPure™ and DuraPure™ C93 containers are available in 15L to 2000L sizes
- A range of ports is available from 1/8" to 1"
- mitos-P platinum-cured tubing with molded junctions and sanitary fittings

## DuraPure™ Bioprocess container systems

- Single-use liquid handling systems
- Customized for your requirements



Note: DuraPure™ is a trademark of Parker Hannifin Corporation.

### Ideal for use in peristaltic pumps and molded assemblies

mitos-P is the preferred platinum-cured silicone tubing for use in peristaltic pumps and molded assemblies because of its consistency in dimensions. This consistency delivers optimum performance in both applications by providing steady flow rates during pumping and by ensuring better bonding during molding, giving greater integrity to the assembly.



### Purity

USP Class VI
LAL testing
Systemic toxicity testing
Intracutaneous reactivity testing
Muscle implantation testing

### System Integration

Peristaltic pumps
Filters
Sampling systems
Sensors



## Specifications

### DuraPure™ Bioprocess Container films Outer layer film

#### Property test protocol average values

- Material: Lineal low density polyethylene (LLDPE)
- Physical properties:
  - Specific gravity: ASTM D-792 0.96
- Film strength:
  - Tensile Strength: ASTM D-882 3,100 psi
  - Elongation: ASTM D-882 >650%
  - Elastic Modulus: ASTM D-882 1,100 psi
  - Tear Resistance: ASTM D-1004 550 lbf/in
  - Puncture Resistance: FTMS 101B 22.4 lbf
- Barrier:
  - Water vapor transmission rate: ASTM E-96-80 0.11 g / (100 in<sup>2</sup>\*day)
  - Oxygen permeability: ASTM D-3985 0.28 cm<sup>3</sup> / (100 in<sup>2</sup>\*day\*atm)
  - Carbon dioxide permeability: ASTM D-1434 0.58 cm<sup>3</sup> / (100 in<sup>2</sup>\*day\*atm)

### DuraPure™ C93 film

- Material:
  - The product contact layer is ultra low density polyethylene (ULDPE) and the gas barrier layer is polyethylene vinyl acetate copolymers (EVOH)
- Physical properties:
  - Film Thickness: N/A 0.325mm
  - Specific gravity: ASTM D-792 0.9 g/cm<sup>3</sup>
- Film Strength
  - Tensile Strength: ASTM D-882 13.5 MPa
  - Elongation: ASTM D-882 290%
  - Elastic Modulus: ASTM D-882 360 MPa
- Barrier
  - Water vapor transmission rate: ASTM F-1249 0.33 g/(m<sup>2</sup>\*day)
  - Oxygen permeability: ASTM D-3985 <0.05 cm<sup>3</sup>/(m<sup>2</sup>\*day\*atm)
  - Carbon dioxide permeability: ASTM F-2476 <0.02 cm<sup>3</sup>/(m<sup>2</sup>\*day\*atm)

### Inner layer film

#### Property test protocol average values

- Material: Low density polyethylene (LDPE)
- Physical properties:
  - Film Thickness: N/A 4 mil
- Film strength:
  - Tensile Strength: ASTM D-882 2,900 psi
  - Elongation: ASTM D-882 400%
  - Elastic Modulus: ASTM D-882 25,000 psi

## Connectors

We provide a full line of connectors from many manufacturers that are all compatible with Parker domnick hunter components and systems. With every different type of connector option available, it is our goal to be able to provide our customers with one-stop-shop convenience to meet all connection needs.



**Parker domnick hunter technologies can be combined to produce integrated solutions that will speed up development times, increase efficiency and safety, and guarantee reproducible product quality.**



Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's Standard conditions of sale.



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