

klave-it™ Bioprocess Containers

- Autoclavable single-use containers
- Kynar® PVDF film for strength and flexibility

klave-it™ autoclavable bioprocess containers from Parker domnick hunter are made of a select Kynar® PVDF film designed to maintain flexibility, strength and impact resistance after sterilization by autoclave.

Autoclaving bioprocess container systems in-house provides greater control and more adaptive sampling procedures. klave-it™ bioprocess containers can also be filled and then autoclaved. Because klave-it™ film is constructed of a fluorinated polymer, it has excellent chemical resistance to minimize leachables, making it safe for use with critical products.

Features and Benefits

- Low TOC (total organic carbon)
- Animal derived component free
- Low permeability
- Available in pillow style
- USP Class VI
- Ports are available in 1/8", 1/4", 3/8" and 1/2" sizes



Note: klave-it™ is a trademark of Parker Hannifin Corporation.

Specifications

Materials of Construction

- Material: Kynar® PVDF film

Fittings

- All standard industry connections

Working Temperature Range

-20°C (-4°F) to +80°C (176°F)

Physical Properties

- Elongation at Break (%): ASTM D-638 50-200
- Shore Hardness: ASTM D-2240 65-70 Shore D
- Specific Gravity: ASTM D-792 1.76-1.79
- Tensile Break Strength: ASTM D-638 (psi) 2,500-5,000

Sterilization

- Gamma Irradiation: Maximum of 50 kGy
- Autoclave: 1 bar (14.5 psi) @ 121°C (250°F)

Barrier

- Oxygen Permeability: ASTM D-3985 3.8 - 4.6 x 10⁻⁶ g/100 in²/day
- Carbon Dioxide Permeability: ASTM D-1434 2.3 x 10⁻⁵ cm³/100 in²/day
- Water Vapor Transmission Rate: ASTM E96-80 4.2 x 10⁻⁶ cm³/100 in²/day

Certified Standard of Compliance

- USP Class VI testing
- LAL testing
- Systematic toxicity testing

Applications

Any application in which pre- or post-filling sterilization by autoclaving is required

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.

