

LeRybow® 1/2 Liner Bag

In bioprocessing, liquid-liquid and solid-liquid mixing often faces challenges such as slow powder dissolution, long process times, and limited scalability. LeRybow® 1/2 single-use liners, made from a purpose-designed multilayer co-extruded film, deliver efficient mixing with proven stability and cost-effectiveness. The optimized structure accelerates dissolution, ensures homogeneity, and provides robust mechanical reliability. With round and square designs in a broad capacity range (19 L–568 L), LeRybow® liners offer flexible options from development to mid-scale production. Combining efficiency, reliability, and economic value, they are the ideal choice for non-sterile bioprocessing to boost throughput while reducing cost and risk.



Product advantages

- **Proprietary Film**
In-house developed with strong mechanical strength, chemical resistance, and biocompatibility.
- **Clear Visibility**
Transparent design for easier monitoring and process control.
- **Non-Sterile Ready**
Simple to use, boosting efficiency in non-sterile environments.
- **Flexible Options**
Wide volume range with customizable sizes.
- **Open-Top Design**
Enables efficient material transfer and provides higher cost-efficiency than closed bags.

Typical application

- Powder-liquid mixing
- Liquid-liquid mixing
- Buffer configuration
- Intermediate product mixing

Technical specification

Physical Characteristics

Testing Standards	Test Items	Test Results
ASTM-D6988	Film thickness test (μm)	Pass
ASTM-882	Tensile strength MD (Mpa)	Pass
ASTM-882	Tensile strength TD (Mpa)	Pass
ASTM-F1306	Puncture strength (N)	Pass
ASTM-D1709	Falling dart impact (J)	Pass
ASTM-F392	Kneading performance (pcs)	Pass

Biocompatibility

Testing Standards	Test Items	Test Results
USP<87>	In vitro biological response	Pass
USP<88>ClassVI	In vivo biological response	Pass
USP<661>	Physical and chemical properties testing of plastics	Pass

Performance Testing

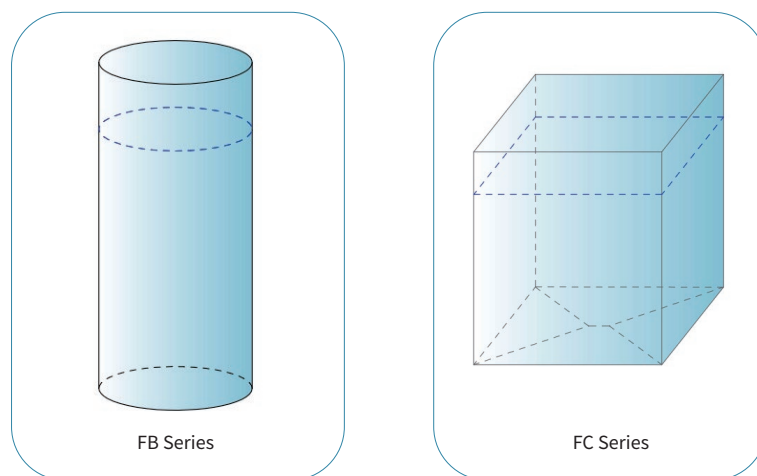
Testing Standards	Test Items	Test Results
USP<788>	Insoluble Particle Test	Pass
USP<85>	Bacterial endotoxin test	Pass
USP<790>	Visible foreign body test	Pass
USP<643>	TOC Test	Pass
USP<645>	Electrical conductivity test	Pass
ASTM F88	Heat seal strength test	Pass

Application

Designed for use with round storage tanks for powder-to-liquid or liquid-to-liquid mixing, and compatible with automated mixing systems for buffer preparation and mixing of process intermediates.



System Illustration



Complete Non-Sterile Mixing Solution:

LestiPro® Single-Use Automated Mixing System = LeRybow® 1/2 Single-Use Liner + Automated Mixing Equipment + EZ-TRANS Round Storage Tank

Supporting Equipment

Automated Mixing Equipment

- 304 stainless steel balance frame with I-beam design for easy mobility and operation
- Imported motor with variable frequency drive for precise speed control and process validation; stainless steel enclosed housing for easy cleaning and maintenance
- 316L stainless steel mixing shaft and impeller with quick, tool-free installation and removal

Note: For details on compatible equipment and accessories, please consult your regional sales representative.

EZ-TRANS Round Storage Tank

- Plastic drum with stainless steel mobile base for improved handling
- Constructed of LLDPE, resistant to common alcohol-based disinfectants
- Flared rim design for secure liner placement
- Clean, uniform material with smooth inner wall to prevent liner abrasion
- Maximum operating temperature: 60 °C (not suitable for steam sterilization)

Ordering information

FB Series

Pro NO.	Volume/L	Categories	Inlet tube	Packing
FB019-1C	19	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK019-1	40 sets/carton
FB028-1C	28	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK028-1	40 sets/carton
FB038-1C	38	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK038-1	40 sets/carton
FB057-1C	57	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK057-1	30 sets/carton
FB113-1C	113	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK113-1	20 sets/carton
FB208-1C	208	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK208-1	15 sets/carton
FB303-1C	303	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK303-1	10 sets/carton
FB378-1C	378	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK378-1	10 sets/carton
FB568-1C	568	Round Liner Bags	No tube, suitable for pure round plastic buckets, Pro No: (C)LBK568-1	10 sets/carton

FC Series

Pro NO.	Volume/L	Categories	Inlet tube	Packing
FC113-1C	113	Square Liner Bags	No tube, suitable for Nalgene buckets	20 sets/carton
FC208-1C	208	Square Liner Bags	No tube, suitable for Nalgene buckets	15 sets/carton
FC303-1C	303	Square Liner Bags	No tube, suitable for Nalgene buckets	10 sets/carton
FC378-1C	378	Square Liner Bags	No tube, suitable for Nalgene buckets	10 sets/carton
FC568-1C	568	Square Liner Bags	No tube, suitable for Nalgene buckets	10 sets/carton
FC050-2C	50	Square Liner Bags	No tube, suitable for Hyclone buckets	20 sets/carton
FC100-2C	100	Square Liner Bags	No tube, suitable for Hyclone buckets	20 sets/carton
FC200-2C	200	Square Liner Bags	No tube, suitable for Hyclone buckets	15 sets/carton

Note: 100% can be customized flexibly, please consult the sales managers in each region for details.