



Stock Code:688026

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Technical Parameters

Physicochemical property

| Test Item | Test Standard | Test Results |
|----------------------------------|----------------------|--------------|
| Connection firmness | Internal Method | Compliance |
| Heat-sealing strength | Invitro cytotoxicity | Compliance |
| Integrity testing | ASTM F2095-01 | Compliance |
| Drop resistance test | ASTM-D4169 | Compliance |
| Physical and chemical properties | USP<661.2> | Compliance |
| TOC test | USP<661.2> | Compliance |

Biological performance

| Test Item | Test Standard | Test Results |
|-----------------------|---------------|--------------|
| Bacterial endotoxin | USP<85> | Compliance |
| In vitro cytotoxicity | USP<87> | Compliance |
| In vivo cytotoxicity | USP<88> | Compliance |
| Hemocompatibility | ASTM F756 | Compliance |
| Heat source test | USP<151 | Compliance |

Other properties

| Test Item | Test Standard | Test Results |
|------------------------|----------------------|--------------|
| Insoluble particulate | USP<788> | Compliance |
| Extractable study | USP<665><1665>, BPOG | Compliance |
| Chemical compatibility | ASTM D543 | Compliance |

Standard Bag Ordering Information

| Cat. No. | Capacity | Membrane Material | Inlet Tubing | Outlet Tubing | Sampling Tubing | Sterile | Qty./Pack | Qty./Pack |
|-----------|----------|-----------------------------|---|--|---|---------|-----------|-----------|
| CSP090500 | 500 mL | External membrane materials | 26cm TPE thermoplastic tubing ID 1/4" × OD 3/8", Luer male taper + Female plug | | 4.5 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", needle sampling port + silicone sleeve | Y | 5 | 25 |
| CSP091500 | | Domestic membrane materials | | | | | | |
| CSP090102 | 2 L | External membrane materials | 50 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", MPC Male + Female plug | 50 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", MPC Male + Male plug | 10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port | Y | 1 | 20 |
| CSP091102 | | Domestic membrane materials | | | | | | |
| CSP090003 | 3 L | External membrane materials | 50 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", MPC Male + Female plug | 50 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", MPC Male + Male plug | 10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port | Y | 1 | 20 |
| CSP091003 | | Domestic membrane materials | | | | | | |
| CSP090001 | 10 L | External membrane materials | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug | 10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port | Y | 1 | 5 |
| CSP091001 | | Domestic membrane materials | | | | | | |
| CSP090002 | 20 L | External membrane materials | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug | 10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port | Y | 1 | 5 |
| CSP091002 | | Domestic membrane materials | | | | | | |
| CSP090005 | 50 L | External membrane materials | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Male + Female plug | 50 cm TPE thermoplastic tubing ID 3/8" × OD 5/8", MPC Female + Male plug | 10 cm TPE thermoplastic tubing ID 1/4" × OD 3/8", female Luer one-way sampling port | Y | 1 | 5 |
| CSP091005 | | Domestic membrane materials | | | | | | |

For other specifications of bag sizes or tubes, please contact us for customized services.



2D Single-Use Storage Bags

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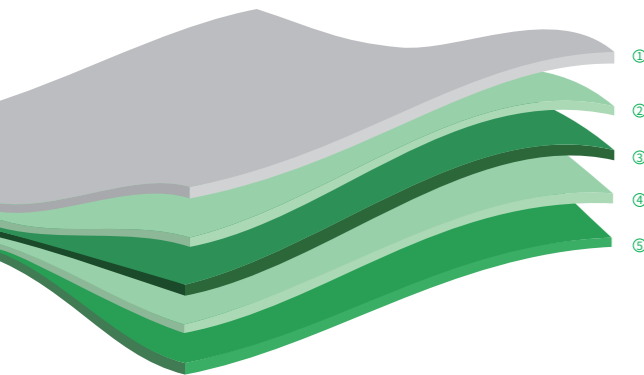
Guangzhou Jet Bio-Filtration Co.,Ltd.

Membrane Material

Jet Biofil's 2D Single-Use Storage Bags are made from multi-layer co-extruded films that comply with the USP Class VI standards, both External and domestic, as raw materials. Both membrane materials have exceptional barrier performance and tensile strength, making them highly resistant to chemicals and biocompatible, which ensures the safety of biopharmaceutical liquids.

Characteristics of Membrane Materials

- Ultra-low density polyethylene (ULDPE) liquid contact layer with excellent physical strength and chemical compatibility
- Extremely low extractable level for biological safety of the process
- Tolerable to most chemicals and polar solvents (alcohols, esters)
- Good resistance to non-polar solvents (hydrocarbons, aromatic hydrocarbons, chlorinated hydrocarbons) at high temperatures
- High transparency, facilitating auxiliary process judgment
- Animal-derived-component-free (ADCF)

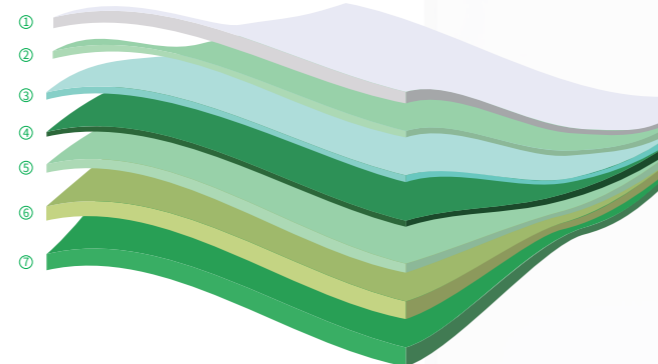


External membrane materials

| Layer | Raw Material Name | Thickness | Total Thickness of Individual Layer |
|------------------------|---|-----------|-------------------------------------|
| ① Protective layer | Low-density polyethylene (LDPE) | 50μm | 320μm |
| ② Gluing Layer | TIE | 10μm | |
| ③ Barrier layer | Ethylene-vinyl alcohol copolymer (EVOH) | 20μm | |
| ④ Gluing Layer | TIE | 10μm | |
| ⑤ Liquid contact layer | Ultra low density polyethylene (ULDPE) | 230μm | |

Domestic membrane materials

| Layer | Raw Material Name | Thickness | Total Thickness of Individual Layer |
|------------------------|---|-----------|-------------------------------------|
| ① Protective layer | Polyester copolymer (TPEE) | 50μm | 320μm |
| ② Gluing Layer | TIE | 20μm | |
| ③ Barrier layer | Copolyamide (Nylon) | 15μm | |
| ④ Barrier layer | Ethylene-vinyl alcohol copolymer (EVOH) | 15μm | |
| ⑤ Gluing Layer | TIE | 20μm | |
| ⑥ Reinforcement layer | Linear low density polyethylene (LLDPE) | 100μm | |
| ⑦ Liquid contact layer | Ultra low density polyethylene (ULDPE) | 100μm | |



References of Membrane Material

| Item | Reference Standard | Item | Reference Standard |
|--|--------------------|----------------------------------|--------------------|
| Thickness, μm | GB/T 6672-2001 | Transmittance, % | ASTM D1003 |
| Water vapor permeance, g/(m ² *24h) | ASTM F1249 | Bacterial endotoxin | USP<85> |
| Oxygen transmission, cm ³ /(m ² *24h*0.1MPa) | ASTM D3985 | In vitro cytotoxicity | USP<87> |
| Tensile strength (longitudinal/transverse), MPa | ASTM D882 | In vivo cytotoxicity | USP<88> |
| Heat-sealing strength (longitudinal/transverse), N/15mm | YBB00122003-2015 | Physical and chemical properties | USP<661.2> |
| Tearing strength (longitudinal/transverse), N/mm | ASTM D624-00 | Chemical compatibility | ASTM D543 |
| Haze, % | ASTM D1003 | | |

2D Single-Use Storage Bags

Storage bags are essential consumables for liquid preparation, storage and transportation in bioprocessing. Our 2D Single-Use Storage Bags are made from high-quality raw materials that ensure minimal gas permeability. The bags has excellent physical strength, chemical compatibility, and biocompatibility, making it ideal for safely storing and transferring various biopharmaceutical liquids with efficiency.

Our 2D Single-Use Storage Bags are subject to strict production and quality inspection control in strict accordance with the requirements of ISO 13485 and ISO 9001, and relevant GMP regulations are followed to ensure stable and reliable product quality. The size and tubing can be flexibly adjusted to fit various processes.

Specifications: 500mL 2-port, 2L 3-port, 2L 3-port, 10L 3-port, 20L 3-port, 50L 3-port

Membrane materials: External and domestic

Materials: Bag body: multi-layer co-extruded films; Tubing: thermoplastic elastomer (TPE); Bag interface: polycarbonate (PC); Luer taper/MPC connector: polypropylene (PP)/polycarbonate (PC), all conforming to USP Class VI standards



Product Features

- With good physical strength and chemical compatibility, applicable to various liquids in the biopharmaceutical process
- High transparency bags, facilitating auxiliary process judgment
- Adaptable to various mainstream transfer tools on the market
- With finished products tested by an authoritative third party for good biocompatibility and biological safety
- Operating temperature: -80°C - 60°C
- Flexibly adjustable size and tubing to fit various processes
- Sterilized by irradiation, SAL 10⁻⁶, DNase/RNase-free, non-pyrogenic, human DNA-free

Application Fields

- Preparation, storage and transfer of sterile solutions such as buffer solution and media
- Feeding of and harvesting from bioreactors
- Intermediate collection and storage
- Storage of pre-chromatography liquids
- Bulk storage and transfer
- Product sampling and sample retention
- Storage of finished products
- Reagent products filling

Product Drawings

