



Flex4Sure™ 2D



Rely on it.



250ml – 50L multi-layer PE pillow bags for the storage and handling of biopharmaceutical process solutions.

The multi-layer co-extrusion RENOLIT INFUFLEX 9101 ULDPE film used for the 2D pillow bags ensures minimized gas permeability, good physical strength, and wide chemical compatibility and biocompatibility of the aseptic storage bags, so that they can be safely used for the storage and transportation of various biopharmaceutical liquids. Standard 2D chambers with 3 ports, 250ml – 50L

Advantages

- Good physical strength, chemical compatibility, and biological compatibility of film materials.
- Highly transparent film materials for enhanced visual inspection of process fluids
- Caterings to the needs for storage and transport of various solutions in the biopharmaceutical process
- Flexible customization of configuration, allowing precise alignment with application needs; potential for customized chamber volumes

Applications

- Storage and transport of small-scale buffers and culture media
- Purified component collection
- Sample collection and transport
- Temporary storage and transportation of bulk intermediates
- Collection, storage, and transport of drug substances
- Transport of end products

Process flexibility is provided by various chamber volumes combined with customized tubing types, sizes, and lengths. A wide range of distal connectors are available (filters, aseptic and hygienic connectors). Manifolds can also be specified for additional process security in critical applications.



Technical Parameters

Production Data

Typical Values

Specification	250ml – 50L – 3-port
Operating temperature	0 – 60°C
Sterilization method	Gamma ray irradiation sterilization (25 – 40 kGy)
Packaging form	Double-layer PE bag vacuum packaging

Film Material Information

Structure	LDPE/EVOH/ULDPE (liquid contact layer)
Thickness	0.325 mm
Compliance	ISO 10993-4: Hemolysis, ISO 10993-5: Cytotoxicity
	ISO 10993-6: Implantation test, ISO 10993-10: Irritation and sensitization tests
	ISO 10993-11: Acute Systemic Toxicity test
	USP<85>: Bacterial Endotoxins – LAL test on request
	USP<661>: Plastic containers, European Pharmacopoeia tests, Ch. 3.1.5
	USP<88>: Biological reactivity testing, in vivo, Class VI
	USP<661>: Plastic containers, European Pharmacopoeia tests, Ch. 3.1.5
	ADCF: No animal-derived ingredients

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