

Saint-Gobain Single-Use 3D Bioprocess Bags

For Cylindrical Tanks with 3 Ports

Cole-Parmer®



These single-use bioprocess bags feature multilayer films in different materials to provide the best biocompatibility, chemical resistance, and gas barrier to meet your bioprocessing applications.

A 3D bag consists of multilayer sheets sealed together to often form a cuboidal shape and fits inside a supporting tank or container. These collapsible bags minimize the risk of cross-contamination and reduce cleaning and turnaround time. Each bag features three ports with 30" long clear C-Flex® 374 tubing, port covers, and pinch clamps. Two ports have MPX inserts, and one port has a female locking luer with needle-free sampling port.



CERTIFICATION

USP Class VI, ISO 10993-3, QSR, and ISO 9001:2015 compliant.

APPLICATIONS

- Buffer and media storage, product hold, and bioreactor feed processes
- Ideal for general-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Clear C-Flex 374 tubing is sealable and weldable for aseptic connections and sealing disconnection
- Bags are sterilized by gamma irradiation, ports are capped and covered, and systems are double bagged for integrity
- Manufactured and packed in an ISO Class 7 certified cleanroom
- Free of any animal-derived components for greater process purity
- Use bags in temperatures ranging from -80 to 60 °C (-112 to 140 °F)

USA

+1.800.323.4340

+1.847.549.7600

Canada

+1.800.363.5900

India

+1.800.266.1244

China

+86.21.5109.9909

UK

+44 (0) 1480.272279

+33 (0) 1 87 17 01 42*

+49 (0) 937 792030*

Italy

+39.02.84349215

All others

+1.847.549.7600

Cole-Parmer®
coleparmer.com

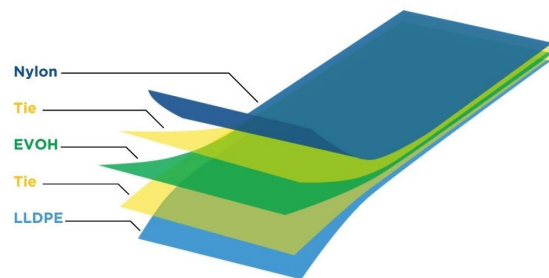
*Enquiries from Germany and France are handled by native speaking experts.

Multilayer Film Structure

Saint-Gobain single-use bags are constructed of multilayer film optimized for bioprocess production applications. Film materials are consistent throughout the product range, and are free of materials of animal origin.

FLUID CONTACT LAYER: LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

Provides outstanding biocompatibility with broad chemical compatibility for safe handling of a wide range of biopharmaceutical liquids.



GAS BARRIER LAYER: ETHYL VINYL ALCOHOL (EVOH)

Provides excellent barrier to the transmission of oxygen and carbon dioxide.

STRENGTH LAYER: NYLON

Provides outstanding impact and tear resistance, optimizing overall toughness of the bag.

TIE STRUCTURE

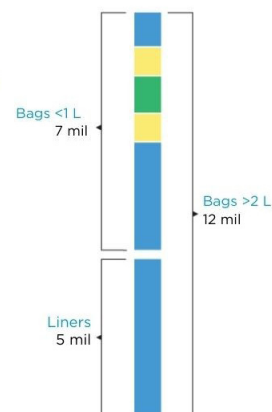
Multiple materials provide bonding between layers and add to overall performance of the bag.

FILM THICKNESS

Liners: 5 mil (side-wall) and 7 mil (bottom)

50mL to 1 L bags: 7 mil

2 L to 3000 L bags: 12 mil

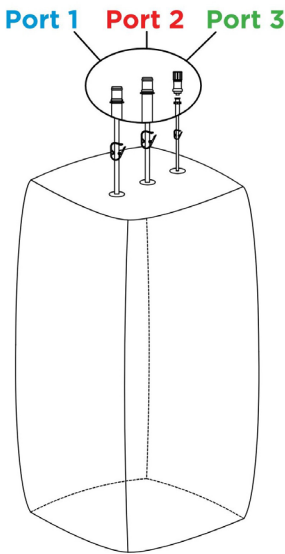


Physical Properties

	ASTM ¹	Units	Typical Value
Thickness	—	mils	12
Tensile Strength (MD)	D882A	psi	5300
Tear Resistance	D1922	grams	>800
Seam Strength	D882	lbs/in	>25
Dart Impact	D1709	grams	>1600
O ₂ Transmission Rate	D3985	cc/m ² /day	<0.005
CO ₂ Transmission Rate	F2476	cc/m ² /day	<1.0
Water Vapor Transmission Rate	F1249	g/m ² /day	2.66 to 2.68

1. ASTM test results reported using 7.0 mil chamber construction.

Bioprocess Bag Diagram



Specification and Ordering Table

Capacity	Bag Dimensions L x W: in. (cm)	Port 1		Port 2		Port 3		Item Number	Pack Size
		Tubing Dimensions: in. (mm)	Components	Tubing Dimensions: in. (mm)	Components	Tubing Dimensions: in. (mm)	Components		
50 L	11" x 11" x 27.5" (27.94 x 27.94 x 69.85)	1/2" ID x 3/4" OD x 30" L (12.7 x 19.1 x 762)	MPX Insert, MPX Cap, Pinch Clamp	1/2" ID x 3/4" OD x 30" L (12.7 x 19.1 x 762)	MPX Insert, MPX Cap, Pinch Clamp	1/8" ID x 1/4" OD x 30" L (3.2 x 6.4 x 762)	Female Luer Lock with Needle-Free Sampling Port, Luer Cap, Pinch Clamp	48524-15	10
100 L	15" x 15" x 30.5" (38.1 x 38.1 x 77.47)							48524-16	10
200 L	17.5" x 17.5" x 41" (44.45 x 44.45 x 104.14)							48524-17	10
300 L	19" x 19" x 52.5" (48.26 x 48.26 x 133.35)							48524-18	4
500 L	39.25" x 39.25" x 42.25" (99.7 x 99.7 x 107.32)							48524-19	4