

# 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 10993-5, 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
China	86.21.5109.9909
India	+1.800.266.1244

UK	+44 (0) 1480.272279
	+33 (0) 1.87.170142*
	+49 (0) 937.792030*
Italy	+39.02.84349215
All others	+1.847.549.7600

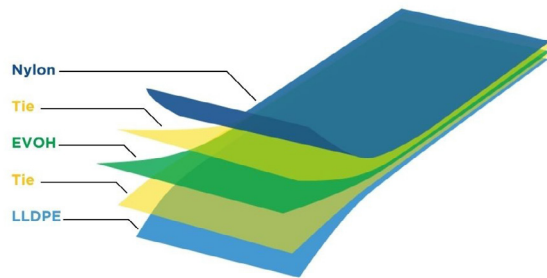
Cole-Parmer®

[coleparmer.com](http://coleparmer.com)

\*Inquiries from Germany and France are now handled in our St. Neots office 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

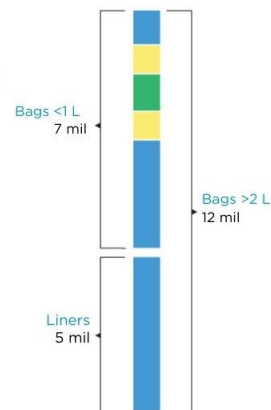
Multiple materials provide bonding between layers and add to overall performance of the bag.

### 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

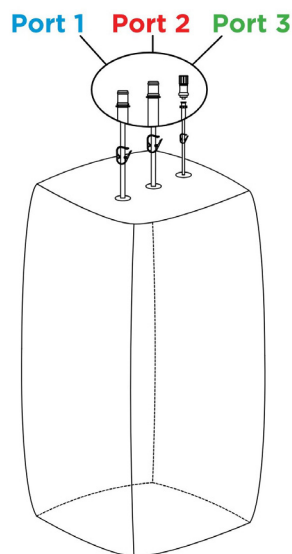


## Physical Properties

	ASTM <sup>1</sup>	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 <sub>2</sub> Transmission Rate	D3985	cc/m <sup>2</sup> /day	<0.005
CO <sub>2</sub> Transmission Rate	F2476	cc/m <sup>2</sup> /day	<1.0
Water Vapor Transmission Rate	F1249	g/m <sup>2</sup> /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	<a href="#">48524-15</a>	10
100 L	15" x 15" x 30.5" (38.1 x 38.1 x 77.47)							<a href="#">48524-16</a>	10
200 L	17.5" x 17.5" x 41" (44.45 x 44.45 x 104.14)							<a href="#">48524-17</a>	10
300 L	19" x 19" x 52.5" (48.26 x 48.26 x 133.35)							<a href="#">48524-18</a>	4
500 L	39.25" x 39.25" x 42.25" (99.7 x 99.7 x 107.32)							<a href="#">48524-19</a>	4