

# Saint-Gobain Single-Use 3D Bioprocess Liners For Cylindrical Tanks

Cole-Parmer®



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

A 3D liner is an open-top bag that can be placed inside of a cylindrical tank or containment vessel. These collapsible liners minimize the risk of cross-contamination and reduce cleaning and turnaround time. This open-top bag can accommodate a top-down paddle mixer, commonly used in upstream media preparation.



## CERTIFICATION

USP Class VI, ISO 10993-5, QSR, and ISO 9001:2015 compliant

## APPLICATIONS

- Sample mixing, upstream media preparation, and final product hold
- Ideal for general-purpose, laboratory, and single-use applications

## FEATURES/BENEFITS

- Liners are sterilized by gamma irradiation and 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 liners in temperatures ranging from -80 to 60 °C (-112 to 140 °F)

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\*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

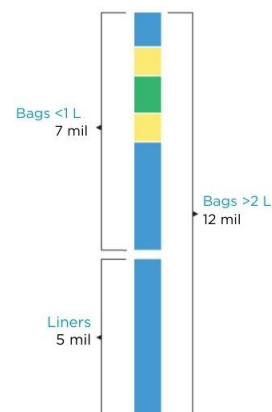
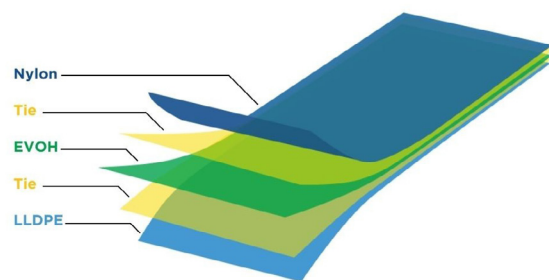
Provides outstanding impact and tear resistance, optimizing overall toughness of the bag.

### 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)  
 50 mL to 1 L bags: 7 mil  
 2 L to 3000 L bags: 12 mil

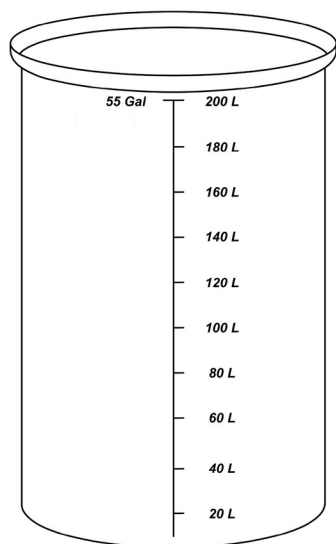


## Physical Properties

	ASTM <sup>1</sup>	Units	Typical Value
Thickness	—	mils	Side-wall: 5 Bottom: 7
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 Liner Diagram



## Specification and Ordering Table

Capacity	Lay Flat Dimensions L x W x H: in. (cm)	Fits Tank With OD x H: in. (cm)	Item Number	Pack Size
20 L	21" x 19.5" x 15.25" (53.34 x 49.53 x 38.43)	11" x 15" (27.9 x 38.1)	<a href="#">48524-05</a>	20
50 L	34" x 25" x 27.75" (86.36 x 63.5 x 70.18)	13" x 27" (33 x 68.6)	<a href="#">48524-06</a>	20
100 L	36" x 32.5" x 30" (91.44 x 82.55 x 76)	18" x 30" (45.7 x 76.2)	<a href="#">48524-07</a>	20
200 L	42" x 38.5" x 36.25" (106.68 x 97.79 x 91.77)	22" x 36" (55.9 x 91.4)	<a href="#">48524-08</a>	10
300 L	54" x 41" x 48" (137.16 x 104.14 x 122.1)	24" x 48" (61 x 121.9)	<a href="#">48524-09</a>	10
400 L	51" x 48" x 44.25" (129.54 x 121.92 x 112.4)	28" x 44" (71.1 x 111.8)	<a href="#">48524-10</a>	10
500 L	68" x 54" x 49.5" (172.72 x 137.16 x 125.25)	31" x 49" (78.7 x 124.5)	<a href="#">48524-11</a>	10