

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 10993-3, 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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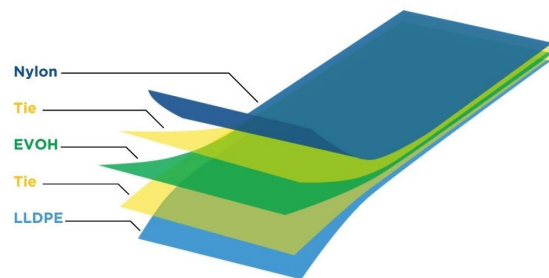
*Enquiries from Germany and France are handled by native speaking experts.

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

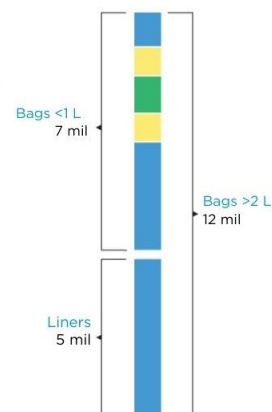
Provides outstanding impact and tear resistance, optimizing overall toughness of the bag.

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

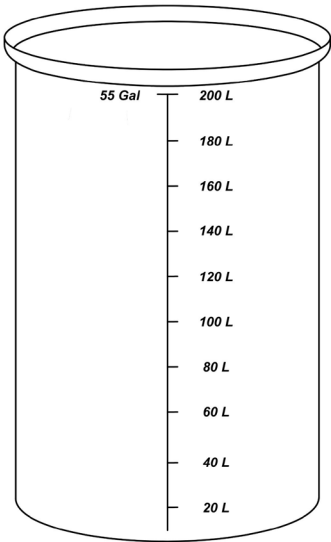


Physical Properties

	ASTM ¹	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 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 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)	48524-05	20
50 L	34" x 25" x 27.75" (86.36 x 63.5 x 70.18)	13" x 27" (33 x 68.6)	48524-06	20
100 L	36" x 32.5" x 30" (91.44 x 82.55 x 76)	18" x 30" (45.7 x 76.2)	48524-07	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)	48524-08	10
300 L	54" x 41" x 48" (137.16 x 104.14 x 122.1)	24" x 48" (61 x 121.9)	48524-09	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)	48524-10	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)	48524-11	10