



# International Filter Products

*Revolutionary systems for your industry*

## 3D Tank Liners for Standard Nalgene Tanks

Saint-Gobain is a leading global supplier of 3D Tank Liners for standard 20 L to 500 L Nalgene Tanks. Our single-use bags are constructed of a 5 mm thick LLDPE side wall and a 7 mm thick bottom for extra strength. The high-quality LLDPE is the fluid contact material, and it is consistent throughout the product range. All standard products are free of animal-derived components. Saint-Gobain Bioprocess Systems are manufactured following cGMP that is QSR and ISO 9001: 2015 compliant. The tank liners are manufactured and assembled at our Plymouth, MN facility that operates a certified ISO Class 7 cleanroom. Our standard designs are ready to fit a range of bioprocess functions, or we can deliver custom products to meet your exacting needs.

### Application

- Buffer and Media Storage
- Chromatography Feed
- Intermediate Product Hold
- Bioreactor Feed and Harvest
- Fraction Collection
- Final Product Hold



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## Technical Data Sheet

### Features and Benefits:

- ❖ Temperature range -80°C to 60°C (-112°F to 140°F).
- ❖ 5mm thick and consistent LLDPE as the fluid contact material.
- ❖ Sterilized by gamma irradiation.
- ❖ Come with a complete Certificate of Conformance.
- ❖ All formulas are Animal-Derived Component Free.
- ❖ All-inclusive Validation Guide and the Regulatory Information Overview (RIO) are available for customers upon request.

### Physical Properties:

Property		ASTM Method	Formulations Value	Unit
Thickness	Sidewall	-	5.0	Millimeter
	Bottom-wall	-	7.0	Millimeter
Tensile Strength (MD)		D882A	5300	psi
Tear Resistance		D1922	>800	grams
Seam Strength		D882	>25	Lbs./in
Dart Impact		D1709	>1600	grams
O <sub>2</sub> Transmission Rate		D412	<0.005	cc/m <sup>2</sup> /24 hr
CO <sub>2</sub> Transmission Rate		D395	<1.0	cc/m <sup>2</sup> /24 hr
Water Vapor Transmission Rate		D746	2.66 to 2.68	g/m <sup>2</sup> /24 hr
Operating Temperature		-	-80°C to 60°C	°C

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## Material of Construction

Saint-Gobain 3D Tank-Liner materials are consistent throughout the product range and are free of materials of animal origin. Offering outstanding biocompatibility, chemical compatibility, barrier, and strength properties, Saint-Gobain films meet the most demanding bioprocess applications.

### Fluid Contact Layer - Linear Low-Density Polyethylene (LLDPE)

Provides outstanding biocompatibility with broad chemical compatibility for the safe handling of a wide

#### Film Thickness

- Sidewall: 5mm
- Bottom-wall: 7mm

### Regulatory Compliance (Biocompatibility, Physicochemical & Extractable Testing):

Summary of Results: 3D Tank Liners for Standard Nalgene Tanks		
Method Description	Reference Standard	Result
Genotoxicity Test	ISO 10993-3	Meets Criteria
In Vitro Cytotoxicity	ISO 10993-5	Meets Criteria
USP Class VI – Biological Reactivity	USP <88>	Meets Criteria
Bacterial Endotoxin	USP <85>	< 0.03EU/mL
Subvisible Particulate	USP <788>	Meets Criteria
Bioburden	ISO 11737-1	< 3 CFU/sample
Extractables Data	Saint-Gobain Protocol	N/A

### Sterilization:

	Test Protocol	Result
Microbiological Validation of <b>25kGy</b> Radiation Sterilization	ANSI/AAMI/ISO 11137	10 <sup>-6</sup> SAL 3-Year Expiry

- ❖ All part numbers referenced in this document are individually double-pouched within their case and gamma-irradiated at 25-40kGy without sterility assurance.
- ❖ Custom bags can be provided with no gamma irradiation, with gamma irradiation, or with gamma irradiation and SAL 10<sup>-6</sup>

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## 3D Tank Liners for Standard Nalgene Tanks

### Ordering Guide:

Part Number	Description	Unit/Case	Price Per Unit
LR0020L	<b>20L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 19.5" (49.5 cm) x HT 21" (53.3 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	20	\$ 68.47
LR0050L	<b>50L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 25" (63.5 cm) x HT 34" (86.4 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	20	\$ 73.62
LR0100L	<b>100L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 32.5" (82.6 cm) x HT 36" (91.4 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	20	\$ 80.98
LR0200L	<b>200L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 38.5" (97.8 cm) x HT 42" (106.7 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	10	\$ 93.13
LR0300L	<b>300L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 41" (104.1 cm) x HT 51" (129.5 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	10	\$ 107.10
LR0400L	<b>400L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 48" (121.92 cm) x HT 51" (129.5 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	10	\$ 126.38
LR0500L	<b>500L, 3D Tank Liner</b> , Fluid contact surface LDPE, Base OD 54" (137.2 cm) x HT 68" (172.7 cm), Film Thickness: 5mm (Side Wall) and 7mm (Bottom), Gamma Irradiated	10	\$ 149.13

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