

Critical Process Vessels



Experience

The variety of process vessels offered has evolved to solve the demanding needs of multiple industries for over 20 years.

Quality

Our tank manufacturing facility operates in accordance with ISO 9001. All tanks are lot traceable back to the molding batch and resin. Each tank ships with unique Saint-Gobain Performance Plastics Certificate of Conformance documents. If the documentation is lost, duplicates of every order are kept and can be e-mailed upon request.

Customized Fabrication

No minimum quantities on custom fabrication work. Minimums may apply if custom molding is required. Individual reference drawings for factory-installed components are created with every custom fabrication order.

Note: XLPE factory-installed fusion-bonded fittings are not available
Mechanical bulkhead fittings are the only port option for XLPE.

Saint-Gobain critical process vessels... we've got it covered!

Features/Benefits

- Custom fused fittings or valves available
- Low or no minimum requirement for custom fabrication
- All tanks come with covers
- Lid is same material of construction as tank
- Pre-designed stand and mixer combinations
- Knowledgeable inside sales and technical support

Industry Approvals and Compliances

- FDA 21 CFR 177.1520: PP, PVDF, HDPE
- U.S. Pharmacopeia Class VI: PP, PVDF
- XLPE is not an FDA-compliant material



Advantages and Applications

	Flat Bottom	Conical Bottom	Closed Dome	Sanitary	Rectangular	Do Not Use With
	General Purpose	Total Drainage	Reduces Evaporation, Closed Sealed System	Closed Sealed System	General Purpose	
PP Polypropylene 32°F to 220°F (0°C to 104°C)	- Acid storage - Neutralization - Autoclavable - Low extractables - Factory-installed fusion-bonded fittings available	- Greater chemical compatibility over PE - Lower extractables - Will not impart taste and odor - Factory-installed fusion-bonded fittings available	- Acid storage - Neutralization - Process tanks - Factory-installed fusion-bonded fittings available	- Acid storage - Neutralization - Organic chemicals - Factory-installed fusion-bonded fittings available	- Etch tanks - Processing - Pit liner - Wastewater treatment - Neutralization - Silicone wafers - Plating - Pickling lines - Metal finishing - Space savings - Factory-installed fusion-bonded fittings available	- Strong oxidizing agents - Aromatic or chlorinated hydrocarbons - Sub-freezing temperatures
PVDF Polyvinylidene Fluoride -40°F to 230°F (-40°C to 110°C)	- Superior resistance to inorganic acids - Strong oxidizing agents and halogenated compounds - Factory-installed fusion-bonded fittings available	- De-ionized water - Powders and grains - Food products - Ultra-pure water storage (not potable) (i.e., bromine) - Insecticide manufacturing - Factory-installed fusion-bonded fittings available	- Process tanks - Storing and processing halogenated compounds - Factory-installed fusion-bonded fittings available	- Biopharmaceutical process tanks - Ink processing - Acid neutralization - Slurries - Ultimate chemical compatibility - Semiconductor process fluids - Low extractables - Factory-installed fusion-bonded fittings available	- Precious metal recovery - Etch tanks - Processing - Pit liner - Silicone wafers - Industrial battery casings - Weldable fittings available	- Ketones - Esters - Hot concentrated caustics - Nascent chlorine gas - Concentrated caustic soda
XLPE Cross-Linked High Density Polyethylene -180°F to 140°F (-118°C to 60°C)	- Cold weather - UV resistant resin - Liquid road salts - Deicing solution - Storing sodium hypochlorite	- Storing corrosives - Sulfuric acid - Hydrochloric and hydrofluoric acids - Wastewater treatment	- Outdoor storage - Process tanks - Better than PE for abrasive solutions - Sealed from foreign products		- Suitable for many corrosives not handled by FRP - Heavy duty parts bins - Only mechanically attached fittings available	- Strong oxidizing agents - Aromatic hydrocarbons - Halogenated-aliphatic hydrocarbons - Liquefied petroleum gas - Solvents
HDPE High Density Polyethylene 32°F to 220°F (0°C to 104°C)	- Storing caustics - Organic and inorganic acids - Floating cover - Weldable fittings available	- Water treatment - Bulk storage up to 8,000 gallons - Weldable fittings available	- Process tanks - Bromine - Water based ink storage - Day tank - Bulk storage up to 12,000 gallons - Weldable fittings available	- Water treatment - Weldable fittings - Factory-installed fusion-bonded fittings available	- Chemical catch basin - Tote bin - Clean room acceptable - Photo chemicals catch basin - Plating - Brine - Heavy duty parts bins - Non-shedding - Weldable fittings available	- Strong oxidizing agents - Aromatic hydrocarbons - Halogenated-aliphatic hydrocarbons - Liquefied petroleum gas - Solvents
Max Volume	1000 Gallons* (3785L)	500 Gallons* (1892L)	100 Gallons (378L)	1000 Gallons* (3785L)	500 Gallons** (1892L)	

*Largest sizes not available in PP or PVDF

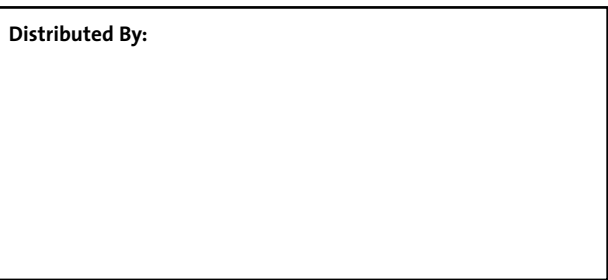
**Saint-Gobain FRP casing recommended for all rectangular tanks with single dimension greater than 18 in.

See the Critical Process Vessels catalog FLS-3239 or www.tanks.saint-gobain.com for more details.

Natural Color Differentiation

- PE, PP and PVDF tanks have a brilliant natural white finish
- PVDF does not have the exterior “shine” as does PP and PE
- XLPE is naturally yellow and has a distinct odor
- All tanks can be pigmented upon request

Note: FDA-compliant pigments are also available.
Contact Customer Service for details.



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Our products are manufactured under a quality management system registered and complying with 3-A Sanitary Standards where noted and with ISO 9001:2000, which has been independently certified by BVQI.

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS' DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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