



Critical Process Vessels

HIGH-PERFORMANCE MOLDED TANKS

Saint-Gobain high-performance tanks are the best and toughest in the industry. Exact CAD-based designs, the highest quality virgin resins and tough construction provide excellent solutions for general purpose applications.

Our tank manufacturing facility operates in accordance with ISO 9001. All tanks are lot traceable back to the molding batch and resin. Certificate of Conformance documentation can be e-mailed upon request.

Minimums 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 available. Mechanical bulkhead fittings are the only port option for XLPE.

Features and Benefits

- Custom fused fittings or valves available
- All tanks come with matching covers with same thickness
- The lid is constructed from the same material as the tank
- Pre-designed stand and mixer combinations
- Knowledgeable inside sales and technical support

Regulatory Compliance

- PP, PVDF, HDPE resins are compliant with applicable FDA Food additive Regulations (use limitations may apply)
- U.S. Pharmacopeia Class VI: PP, PVDF



Critical Process Vessels

Advantages and Applications

	Flat Bottom General Purpose	Conical Bottom Total Drainage	Closed Dome Reduces Evaporation, Closed Sealed System	Sanitary Closed Sealed System	Rectangular General Purpose	Do Not Use With
PP Polypropylene 32°F to 220°F (0°C to 104°C)	<ul style="list-style-type: none"> Acid storage Neutralization Autoclavable Low extractables Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Greater chemical compatibility over PE Lower extractables Will not impart taste and odor Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Acid storage Neutralization process tanks Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Acid storage Neutralization Organic chemicals Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Etch tanks Processing Pit liner Wastewater treatment Neutralization Silicone wafers Plating Pickling lines Metal finishing Space savings Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Strong oxidizing agents Aromatic or chlorinated hydrocarbons Sub-freezing temperatures
PVDF Polyvinylidene Fluoride -40°F to 230°F (-40°C to 110°C)	<ul style="list-style-type: none"> Superior resistance to inorganic acids Strong oxidizing agents and halogenated compounds Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Process tanks Storing and processing halogenated compounds Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Biopharmaceutical process tanks Ink processing Acid neutralization Slurries Ultimate chemical compatibility Semiconductor process fluids Low extractables Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Precious metal recovery Etch tanks Processing Pit liner Silicone wafers Industrial battery casings Weldable fittings available 	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Cold weather UV resistant resin Liquid road salts Deicing solution Storing sodium hypochlorite 	<ul style="list-style-type: none"> Storing corrosives Sulfuric acid Hydrochloric and hydrofluoric acids Wastewater treatment 	<ul style="list-style-type: none"> Outdoor storage Process tanks Better than PE for abrasive solutions Sealed from foreign products 		<ul style="list-style-type: none"> Suitable for many corrosives not handled by FRP Heavy duty parts bins Only mechanically attached fittings available 	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> Storing caustics Organic and inorganic acids Floating cover Weldable fittings available 	<ul style="list-style-type: none"> Water treatment Bulk storage up to 8,000 gallons Weldable fittings available 	<ul style="list-style-type: none"> Process tanks Bromine Water based ink storage Day tank Bulk storage up to 12,000 gallons Weldable fittings available 	<ul style="list-style-type: none"> Water treatment Weldable fittings Factory-installed fusion-bonded fittings available 	<ul style="list-style-type: none"> Chemical catch basin Tote bin Clean room acceptable Photo chemicals catch basin Plating Brine Heavy duty parts bins Non-shedding Weldable fittings available 	<ul style="list-style-type: none"> Strong oxidizing agents Aromatic hydrocarbons Halogenated-aliphatic hydrocarbons Liquefied petroleum gas Solvents
Max Volume	1000 gallons* (3785L)	500 gallons* (1892L)	100 gallons (378L)	400 gallons* (1514L)	500 gallons** (1892L)	

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.

* Largest sizes not available in PP or PVDF

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

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 DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

www.ics.saint-gobain.com



Saint-Gobain
 210 Harmony Road
 Mickleton, NJ 08056
 USA



NOTE: Saint-Gobain Performance Plastics Corporation does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or of any final product into which the product(s) may be incorporated by the purchaser and/or user. The purchaser and/or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.