



ENGINEERED SYSTEMS

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## Comparison of Process Tank and Vessel Materials

Tank or Vessel Material	Material and Fabrication Cost	Thermal Insulation	Max Operating Temp	Outdoor UV Resistance	Impact Resistance	Chemical Versatility
Polypropylene (Homopolymer)	Low	Most	180 - 230 F	Poor to Moderate	Moderate Excellent with Copolymer	High
304 Stainless Steel	High	Low	1000 - 1500 F	Excellent	Good	Moderate
Fiberglass	Moderate	Moderate	250 F	Excellent	Poor	Moderate
PVC (Type II)	Low	Moderate	140 F	Good	Good	High
Polystyrene <sup>®</sup>	Moderate	Moderate	140 - 180 F	Excellent	Good	High
Polylast <sup>®</sup>	Low to Moderate	Moderate	140 F	Excellent	Moderate	High

### Notes:

This table is used only as a general guide when selecting material of construction for chemical process tanks, vessels, scrubbers, and other equipment. Chemistry, Temperature, Pressure, and other process conditions can have a major affect on performance of these materials. Please consult KCH for the best materials for your application.