

PVC  
Poly Vinyl Chloride

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**PHYSICAL PROPERTIES**

For common applications in the liquid containment arena — ones that just need a dependable blue-collar material — PVC is the way to go. PVC sheet is a good, economical alternative to higher priced materials. Its weldability and compatibility with Type I PVC pipe saves time and money since the PVC-formed container can be directly welded to the PVC pipe, eliminating flanges or other connectors.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm <sup>3</sup>	1.41
Tensile strength at yield	ASTM D-638	psi	n/a
Tensile modulus	ASTM D-638	psi	435,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	n/a
Tensile impact	DIN 53448	ft-lbs/in <sup>2</sup>	60
Flexural modulus	ASTM D-790	psi	400,000
Flexural strength	ASTM D-790	psi	12,100
Izod impact	ASTM D-4020	ft-lbs/in <sup>2</sup>	n/a
IZOD impact notched	ASTM D-2240	ft-lbs/in <sup>2</sup>	0.8
Compressive modulus	ASTM D-695	psi	n/a
Compressive deformation	ASTM D-621	% at 1000 psi	n/a
Hardness	ASTM D-2240	Shore D	82
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	4.0 x 10 <sup>-5</sup>
Heat deflection temperature, 66 psi	ASTM D-648	°F	167
Heat deflection temperature, 264 psi	ASTM D-648	°F	155
Vicat softening temperature	ASTM D-1525	°F	tyty
Max. operating temp.		°F	140
Water absorption 24hrs.	ASTM D-570	%	0
Flammability	ASTM D-635	UL - 94	V-0

\*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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