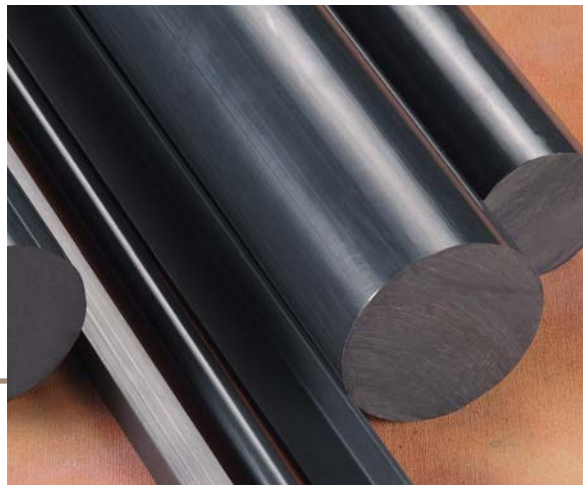
PVC (polyvinyl chloride, rigid)



Rigid PVC is a strong, stiff, low cost plastic material that is easy to fabricate and easy to bond using adhesives or solvents. It is also easy to weld using thermoplastic welding equipment. PVC is frequently used in the construction of tanks, valves, and piping systems.

KEY CHARACTERISTICS:

- Strong and stiff
- Low cost
- Easy to weld using thermoplastic welding equipment
- Easy to join using solvents or adhesives
- FDA compliant grades available

APPLICATIONS:

- Welded tanks
- Manifolds
- Valve and pump housings
- Fittings
- Piping systems
- Cabinets and working surfaces

PVC TYPICAL PROPERTIES:

	UNITS	ASTM TEST	PVC (RIGID)
Tensile strength	psi	D-638	7,500
Flexural modulus	psi	D-790	481,000
Izod impact (notched)	ft-lbs/in of notch	D-256	1.0
Heat deflection temperature @264 psi	^{o}F	D-648	158
Maximum continuous service temperature in air	^{o}F		140
Water absorption (immersion 24 hours)	%	D-570	0.06
Coefficient of linear thermal expansion	$in/in/^{o}Fx10^{-5}$	D-696	3.2

Standard Sizes: SHEET: 48"x96" (0.06"-3.0" thick) ROD: diameter 0.25"-12.0"

Length, width, thickness, and diameter tolerances vary by size and by manufacturer • Custom sizes and colors available upon request • Many of our materials are available as films with thicknesses of 0.029" or less. Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand.

Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, and prototyping materials for over 65 years

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