



SmithPlast™

PVC (Polyvinyl Chloride) Rigid

PVC (Polyvinyl chloride) is a high performance low cost Engineering plastic material, which is easy to fabricated, machined and weld. This is chemically non reactive and corrosion resistance.

PVC is resistant to acid, alkali and almost all inorganic chemicals. Although PVC swells or dissolves in aromatic hydrocarbons, ketones, and cyclic ethers.

PVC used in wide range of application in constructions, engineering, mechanical fields.

TECHNICAL PROPERTIES

Properties	ASTM	Unit	Value
Specific Gravity	D792	Cm3	1.30-1.50
Tensile Strength	D638	P.S.I	6000-7500
Compressive Strength	D695	P.S.I	8000-13000
Elongation	D638	%	40-80
Hardness Rockwell	D785		65-85
Flexural Modulus	D790	10 ⁵ P.S.	3-5
Thermal Conductivity	C177	20 °C	0.14
Thermal Expansion	D696	10 ⁻⁶ m/m K	50.40
Max service temperature (Continuous)		°C	65
Volume Resistivity	D257	Ωcm@23°C	1016
Water Absorption	D570	%	0.06

All values are attributes of the used raw materials.

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.