

PVC stands for Polyvinyl Chloride. It is a versatile thermoplastic polymer that is widely used in various industries. PVC has excellent durability, chemical resistance, and electrical insulation properties. It can be rigid or flexible depending on its formulation and processing. It is known for its affordability, ease of processing, and wide range of applications.

Chemical Description

Description	Value
Material Type	Amorphous Thermoplastic
Chemical Name	PVC Polyvinyl Chloride
Additives	Unfilled
Color	Gray
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in ³	0.051
Water Absorption, 24 hrs, Immersion,% by wt.	0.06
Coefficient of Linear Thermal Expansion, x10 ⁻⁵ in./in./°F	6.1
Max Continuous Operating Temp,°F	140
Minimum Operating Temp,°F	14
Flammability Rating,UL94	V-0

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	7.5
Tensile Modulus,ksi	465
Flexural Modulus,ksi	398
Elongation at Break	20%
Hardness Shore D	89
Notched Izod Impact Strength,ft-lb/in	0.4

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.