



# PVC (Type 1)

Polyvinyl Chloride

## Description and Overview

PVC Type 1 is a versatile mechanical thermoplastic offering excellent chemical, corrosion and flame resistance.

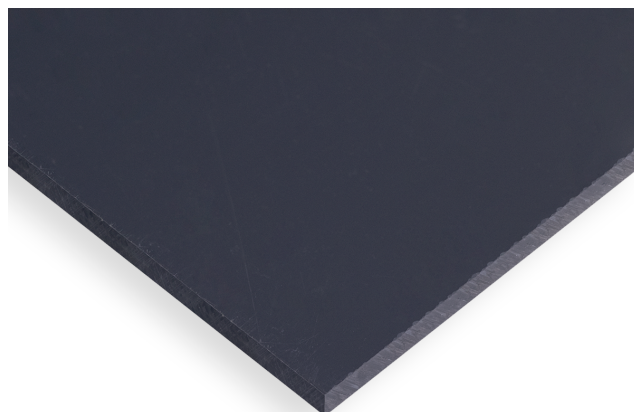
Featuring high tensile strength and hardness, cost-effective PVC is one of the world's most widely used mechanical plastics. PVC has good electrical and insulation properties and performs well within a wide temperature range.

Physical specifications of PVC may be altered by the addition of plasticizers and impact modifiers to enhance specific properties.

## Applications and Uses

PVC contains a wide range of performance characteristics to meet the mechanical needs required in countless applications.

- Electrical cable insulation
- Cabinetry
- Window frames
- Clean rooms
- Wood and metal replacement
- Strainers and filters
- Hubs, nuts, and bolts



PVC is available in sheet, rod, film, welding rod, & expanded grades.

Full sheet: 48" x 96" (0.125" through 4" thick)

Rod: (0.375" through 4.0" diameter)

## Properties and Specifications

Property	PVC (Type 1)
Density (lbs/in <sup>3</sup>   lbs/ft <sup>3</sup> )	0.0506   87.4
Water Absorption @ 24 Hours	0.04%
Tensile Strength (psi)	8,350
Tensile Modulus (psi)	465,000
Flexural Yield Strength (psi)	8,350
Flexural Modulus (psi)	398,000
Izod Notched Impact (ft-lb/in.)	0.4
Elongation at Break	5%
Maximum Service Temperature	140°F
Flammability, UL94	V-0
Affixable Properties	Chem / Mech

Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.

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WARNING: This product can expose you to chemicals including Polyvinyl Chloride, CAS 9002-86-2, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



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Rev 4 (09/7/2022)