





#### **Alternative Designations**

#### **Key Features**

Polyvinyl chloride

Resistant to weathering, chemicals, corrosion and shock • Biocompatible • High strength

## **Description**

PVC is made from a polymer of vinyl chloride. This polymer is then combined with other chemicals to create a variety of PVC products. It is the third most synthesized thermoplastic material. It is resistant to weathering, chemicals, corrosion and shock. It has good resistance to abrasion and good insulation properties. Furthermore, it is tough, lightweight and fire retardant. It is commonly used for pipes, window frames, bottles, electrical distribution boxes etc.

## **Mechanical Properties**

## **Thermal Properties**

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Tensile modulus	2833.7 MPa	Heat deflection temperature (1.80 MPa)
Tensile strength	51.5 MPa	
Elongation at break	3%	
Flexural strength	88.2 MPa	
Flexural modulus	3.31 GPa	
Hardness	82	

# **Physical Properties**

Density	1.41 g/cm <sup>3</sup>
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#### Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit <u>Materialdatacenter.com</u> for further information on this material.

80°C