

### Key Features

- Chemical stability
- Clarity / transparency
- Flexible or rigid
- Biocompatibility
- High strength
- Economical
- Dimensional stability
- Good weather resistance
- High impact strength

### Common Applications

- Medical and food grade tubing
- Filters
- Tanks
- Pipes
- Valves
- Bushings
- Fittings
- Laboratory equipment Ducts
- Wall coverings

### Material Description

Polyvinyl chloride (PVC) is a synthetic thermoplastic polymer known for its versatility and cost-effectiveness. PVC offers excellent durability, chemical resistance, and weatherability, making it suitable for a wide range of applications. Common uses of PVC include piping systems for plumbing, irrigation, and drainage, as well as electrical insulation, window frames, flooring, and medical tubing. It is also commonly used in construction materials such as doors, siding, and roofing due to its strength and weather resistance. Additionally, PVC can be easily molded, extruded, and fabricated into various shapes and sizes.

### Mechanical Properties

<b>Ultimate Tensile Strength</b>	24.0 MPa
<b>Tensile Yield Strength</b>	42.4 MPa
<b>Hardness</b>	Shore D77.4
<b>Elongation at Break</b>	259%

### Physical Properties

<b>Density</b>	0.05 lb/in <sup>3</sup> (1.39 g/cm <sup>3</sup> )
<b>Thermal Conductivity</b>	0.157W/m.K
<b>Modulus of Elasticity</b>	2.80 GPa
<b>Melting Point</b>	114 °C

### Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

### InstaVoxel™ - On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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