PVC

PVC is the third most used plastic with all-around good mechanical properties, excellent chemical and weather resistance and good toughness.

Mechanical properties

Ultimate tensile strength	40 - 60 MPa
Yield strength	30 - 50 MPa
Young's modulus (modulus of elasticity)	2.4 - 4.1 GPa
Elongation at break	20 - 40 %
Hardness	10 - 15 HV

Physical properties

UV resistance	Fair

Thermal properties

Maximum service temperature	60 - 80 °C
Thermal expansion coefficent	50 - 80 10^-6/°C
Thermal conductivity	0.14 - 0.17 W/(m·°C)

Electrical properties

ESD Safety	No

PVC CNC Machining Applications & Parts

PVC is a widely used material known for its good mechanical strength, chemical resistance, and flame retardancy. We machine both rigid and flexible grades into durable components for construction and industry.

Typical Parts We Machine from PVC:

- **Construction & Plumbing:** Pipe Fittings, Valves, Custom Brackets, Insulation
- **Electrical Insulation:** Cable Management Parts, Junction Boxes, Switch Plates

- **Signage & Fabrication:** Letters, Templates, Jigs, Prototype Models

Our Machining Advantage:

We employ sharp tools and efficient chip evacuation to cleanly machine PVC without melting or discoloration, delivering parts with a smooth finish and precise dimensions.

Get an Instant Quote your custom PVC parts today.