

PVC-U

Thermoplastic · pressure pipe · PVC-U / PVC-C

PVC-U (rigid PVC) is the proven, economical material for water and chemical lines. PVC-C (chlorinated) extends use to hot water up to approx. 90 °C.

PVC-U / PVC-C

DESIGNATION

~ 1.40 g/cm³

DENSITY

~ 50 N/mm²

YIELD STRESS

~ 60 °C (PVC-C ~
90 °C)

SERVICE TEMP.

Application & properties

- Water supply and irrigation
- Acids and alkalis
- Hot water and chemicals (PVC-C)
- Solvent-cement and flange joints

Material properties

Property	Value
Density	~ 1.40 g/cm ³
Yield stress σ	~ 50 N/mm ²
E-modulus (short-term)	~ 3.000 N/mm ²
Thermal conductivity	~ 0.15 W/(m·K)
Thermal expansion α	~ 0.08 mm/(m·K)

Standards, jointing & product forms

Topic	Detail
Standards	EN ISO 1452, DIN 8061/8062, EN ISO 15493
Jointing	Butt, electrofusion & IR welding, flange; PVC-U/-C also solvent-cementing
Dimensions	d 16 – d 500 mm · bis PN 16
Short name / aka	Hart-PVC · PVC-C (chloriert)