

PE 100

Thermoplastic · pressure pipe · PE 100 / PE-HD

PE 100 is the standard material for plastic pressure pipes – tough, impact-resistant and durable. Ideal for drinking water, gas and wastewater, including trenchless (no-dig) installation.

PE 100 / PE-HD

DESIGNATION

0.95–0.96 g/cm³

DENSITY

~ 23 N/mm²

YIELD STRESS

~ 40 °C (short-term 60 °C)

SERVICE TEMP.

Application & properties

- Drinking-water lines (EN 12201)
- Gas lines (EN 1555)
- Wastewater and industrial lines
- Trenchless installation with PE 100-RC

Material properties

Property	Value
Density	0.95–0.96 g/cm ³
Yield stress σ	~ 23 N/mm ²
E-modulus (short-term)	~ 1.000–1.400 N/mm ²
MRS (minimum required strength)	10 MPa
Thermal conductivity	~ 0.38 W/(m·K)
Thermal expansion α	~ 0.18 mm/(m·K)

Standards, jointing & product forms

Topic	Detail
Standards	EN 12201 (Trinkwasser), EN 1555 (Gas), DIN 8074/8075, EN ISO 15494
Jointing	Butt, electrofusion & IR welding, flange; PVC-U/-C also solvent-cementing
Dimensions	d 16 – d 2000 mm · SDR 41–SDR 7 · bis PN 25
Short name / aka	PE-HD · Polyethylen · MRS 10

All data are typical values for first orientation – without warranty. The applicable standard and the delivery data sheet/certificate are decisive.