

PP

Thermoplastic · pressure pipe · PP-H / PP-R

Polypropylene (PP) is the versatile material for industry, chemicals and building services – with broad chemical resistance and higher temperature resistance than PE.

PP-H / PP-R

DESIGNATION

~ 0.91 g/cm³

DENSITY

~ 32 N/mm² (PP-H)

YIELD STRESS

~ 80–95 °C

SERVICE TEMP.

Application & properties

- Chemical and process lines
- Heating and cooling (PP-R)
- Ventilation and wastewater
- Vessel and apparatus construction

Material properties

Property	Value
Density	~ 0.91 g/cm ³
Yield stress σ	~ 32 N/mm ² (PP-H)
E-modulus (short-term)	~ 1.300–1.600 N/mm ²
Thermal conductivity	~ 0.22 W/(m·K)
Thermal expansion α	~ 0.16 mm/(m·K)

Standards, jointing & product forms

Topic	Detail
Standards	DIN 8077/8078, EN ISO 15494
Jointing	Butt, electrofusion & IR welding, flange; PVC-U/-C also solvent-cementing
Dimensions	d 16 – d 1200 mm · bis PN 16
Short name / aka	Polypropylen · PP-H · PP-R

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