PVDF

Thermoplastic · pressure pipe · PVDF

PVDF (polyvinylidene fluoride) is a high-performance fluoropolymer for the highest demands – ultra-pure media, aggressive chemicals and high temperatures up to approx. 140 °C.

PVDF	~ 1.78 g/cm³	~ 50 N/mm²	~ 140 °C
DESIGNATION	DENSITY	YIELD STRESS	SERVICE TEMP.

Application & properties

- Ultra-pure water and semiconductor industry
- Aggressive acids and alkalis
- High-temperature process lines
- Pharma and chemical plants

Material properties

Property	Value
Density	~ 1.78 g/cm³
Yield stress σ	~ 50 N/mm²
E-modulus (short-term)	~ 2.000 N/mm²
Thermal conductivity	~ 0.19 W/(m·K)
Thermal expansion α	~ 0.13 mm/(m·K)

Standards, jointing & product forms

Topic	Detail
Standards	EN ISO 10931, EN ISO 15494
Jointing	Butt, electrofusion & IR welding, flange; PVC-U/-C also solvent-cementing
Dimensions	d 16 – d 400 mm · bis PN 16
Short name / aka	Polyvinylidenfluorid · Fluorpolymer

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