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PE80 Technical Datasheet — Updated Edition

PE80 polyethylene is a medium-density polyethylene material widely used in water supply, irrigation, and industrial piping systems. It provides good pressure resistance, flexibility, and long-term durability while offering a cost-effective solution for moderate-pressure networks.

Parameter	Specification	Notes
Material Grade	PE80	Medium-density polyethylene
MRS Value	8.0 MPa	Minimum Required Strength
Pressure Rating	PN6 – PN12.5	Depending on SDR
SDR Range	SDR 11 – SDR 26	Defines wall thickness
Hydrostatic Test	20°C & 80°C	Long-term strength
OIT	≥ 20 min	Thermal stability requirement
MFI (ISO 1133)	0.3 – 0.6 g/10min	Material consistency

References:

ISO 4427-1 / 2: Water piping systems

ISO 11357: Thermal testing

ISO 1133: Melt flow index testing