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EN 12201 Technical Datasheet — Updated Edition

EN 12201 defines the performance requirements for polyethylene (PE) piping systems used in potable water supply and pressurized drainage. The standard covers material grades (PE80 / PE100), mechanical properties, dimensional tolerances, hydrostatic pressure testing, long-term performance assessment, and system fitness for purpose.

Parameter	Requirement	Notes
Material Grade	PE80 / PE100	High performance polyethylene
MRS Value	8.0 MPa / 10 MPa	Minimum Required Strength
SDR Classes	SDR 7.4 – SDR 26	Defines pressure & wall thickness
Pressure Rating	PN6 – PN25	Depends on SDR class
OIT (ISO 11357)	>= 20 minutes	Thermal stability requirement
Hydrostatic Test	20°C & 80°C	Resistance up to 165+ hours
MFI (ISO 1133)	0.2 – 0.4 g/10min	Material consistency test
Dimensional Accuracy	EN 12201-2	Ovality, wall thickness tolerance

References:

EN 12201-1: General Characteristics

EN 12201-2: Pipes

EN 12201-3: Fittings

EN 12201-5: Fitness for Purpose

ISO 9080: Long-term hydrostatic strength analysis