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AWWA C906 Technical Datasheet — HDPE Water Transmission Pipes

AWWA C906 defines the requirements for high-density polyethylene (HDPE) pressure pipes for water transmission and distribution, commonly used in large-diameter pipelines (DN 100 – DN 3000). It specifies material grades, pressure classes, testing, and installation performance requirements.

Parameter	Requirement	Notes
Material Type	HDPE (PE4710)	High-strength resin
Pressure Rating	DR 7 – DR 32.5	AWWA pressure ranges
Certification	NSF/ANSI 61	Potable water
Hydrostatic Test	≥ 100 hours	Structural Integrity
Tensile Strength	> 26 MPa	PE4710 resin
Slow Crack Growth	ASTM F1473	SCG resistance
UV Resistance	Carbon black	Outdoor installation

References:

- AWWA C906: HDPE Water Transmission
- NSF/ANSI 61: Potable Water Safety
- ASTM F1473: SCG Testing