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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