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INSO 14427 Technical Datasheet — Iranian National Standard

INSO 14427 is the national standard of Iran for polyethylene piping systems used in water supply and pressurized applications. It aligns with ISO/EN requirements while adding localized criteria for performance, quality control, and dimensional tolerances.

Parameter	Requirement	Notes
Material Grade	PE80 / PE100	Approved for water & irrigation
Pressure Classes	PN6 – PN20	Based on SDR
Dimensional Tolerance	INSO 14427-2	National tolerances
Hydrostatic Test	20°C & 80°C	Long-term strength
OIT	≥ 20 min	Thermal stability
Impact Test	INSO method	Impact resistance
MFI	0.2 – 0.4 g/10 min	Material melt flow

References:

INSO 14427-1: General Requirements
INSO 14427-2: Dimensions & Tolerances
INSO 14427-5: Performance Requirements