



Azarakhsh Novin Mehregan Javid Co.

PE100 Technical Datasheet — High-Performance HDPE

PE100 is a high-density polyethylene (HDPE) material known for superior strength, excellent crack resistance, and long-term pressure performance. It is used widely in potable water, gas, fire systems, and industrial pipelines.

Parameter	Specification	Notes
Material Grade	PE100	High-performance HDPE
MRS Value	10 MPa	Minimum Required Strength
Pressure Rating	PN6 – PN25	Wide pressure range
SDR Range	SDR 7.4 – SDR 26	Defines wall thickness
Hydrostatic Strength	ISO 9080	Long-term test
ESCR	High	Crack resistance
OIT	≥ 20 min	Thermal stability

References:

- ISO 4427: Water PE pipes
- EN 12201: European standard
- ISO 9080: Hydrostatic strength analysis