TDS TECHNICAL DATA SHEET

HDPE PE100 Natural

High Density Polyethylene · Pipe Grade (PE100)

Also traded as **CRP100N** · Origin: **Iran**

MFR (190 °C / 5 KG)	DENSITY	CLASS	HYDROSTATIC (80 °C)
0.22 g/10 min	**0.948 – 0.957** g/cm³	**PE100**	**5000** h

PRODUCT DESCRIPTION

PE100 Natural is a bimodal high density polyethylene pipe resin with 1-butene comonomer. Outstanding stress-crack resistance, high impact strength and outstanding hydrostatic strength make it the choice for PE100 pressure pipes for water and gas, relining and fittings.

- PE100 classified
- High impact strength
- Outstanding ESCR
- Outstanding hydrostatic strength

PROCESSING GUIDE

Process	**Pipe extrusion**
Extrusion temperature	**190 – 220 °C**
Injection temperature	**200 – 280 °C**
Storage	**≤ 6 months, below 40 °C**

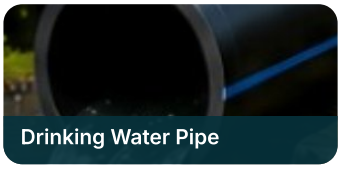
TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (190 °C / 21.6 kg)	ISO 1133	g/10 min	**6.2**
Melt Flow Rate (190 °C / 5 kg)	ISO 1133	g/10 min	**0.22**
Flow Rate Ratio (21.6 / 5)	—	—	**28**
Density	ISO 1183	g/cm³	**0.948 – 0.957**
MECHANICAL			
Notched Impact Strength (23 °C)	ISO 179/1eA	kJ/m²	**24**
PIPE			
Hydrostatic Strength (80 °C, 4.5 MPa)	ISO 1167	h	**5000**

APPLICATIONS


Pressure Pipe


Gas Pipe


Drinking Water Pipe


Fittings

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

Get Today's Rate

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/product/hdpe-pe100-natural/

The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.