TDS TECHNICAL DATA SHEET

HDPE EX3

High Density Polyethylene · Pipe Grade (PE80)

Also traded as **GM5010T2N · X3** · Origin: **Iran**

MFR (190 °C / 5 KG)	DENSITY	CLASS	MRS
0.45 g/10 min	**0.945** g/cm³	**PE80**	**8** MPa

PRODUCT DESCRIPTION

HDPE EX3 is a natural high density polyethylene with 1-butene comonomer, classified as PE80. It offers good environmental stress-crack resistance combined with good impact strength for pressure pipes, drinking-water, gas and sewer pipes, drip irrigation and fittings.

- PE80 classified
- Good stress-crack resistance
- Good impact strength
- Fully stabilised

PROCESSING GUIDE

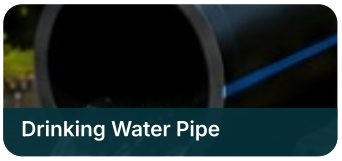
Process	**Pipe extrusion**
Melt temperature	**190 – 220 °C**
Also for	**Fittings, sheet**
Form	**Natural pellets**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (190 °C / 5 kg)	ISO 1133	g/10 min	**0.45**
Melt Flow Rate (190 °C / 21.6 kg)	ISO 1133	g/10 min	**12**
Density	ISO 1183	g/cm³	**0.945**
PIPE			
MRS Classification	ISO/TR 9080	MPa	**8**
Hydrostatic Strength (80 °C)	ISO 1167	h	**1000**
MECHANICAL			
Tensile Modulus (secant)	ISO 527-1, -2	MPa	**850**
Tensile Stress at Yield	ISO 527-1, -2	MPa	**22**
Tensile Strain at Yield	ISO 527-1, -2	%	**8**
Charpy Notched Impact (23 °C)	ISO 179	kJ/m²	**12**
Hardness, Shore D	ISO 868	—	**60**

APPLICATIONS


Pressure Pipe


Drinking Water Pipe


Gas 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

Scan for a WhatsApp quote. Weekly rates: t.me/rabinpolybot

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