

HIGH DENSITY POLYETHYLENE (HDPE)**TECHNICAL DATA SHEET****HDPE – Pe 100****Polypropylene (PE) from SC "Turkmengas"**

According to the State Statistics Committee of Turkmenistan, the level of use of production facilities for the production of polyethylene in the Turkmenbashi complex of oil refineries (TKNPZ) reached 93.5%. This demonstrates the excellent technical condition of the plant and the availability of high-quality raw materials. Turkmenistan began the sale of polypropylene (PP) and high-density polyethylene (HDPE) from a new gas chemical complex in the village of Kiyarly (Balkan region, Turkmenistan).

PE-100 is the most conventional material for tank and equipment production in chemical industry due to its extremely good processability and chemical resistance properties. It can be used in humid areas as it has no water absorption. PE materials provide chemical resistance and rigidity between -40 oC and +80 oC temperature range. Due to carbon black additive, PE black sheets have UV resistance and suitable for longterm outdoor use. PE-EL materials provide electrical conductivity per ATEX and prevent sparking by distributing static charges.

PE – 100 CHARACTERISTICS:

- Outstanding environmental stress crack resistance
- High stiffness
- High impact strength (Rapid Crack Propagation)
- Good processability

**Application:**

Pipe extrusion, water and gas transportation

TYPICAL PHYSICAL PROPERTIES

Property	Units	Typical Value	Test Method
Melt flow rate (2.16 kg load)	g/10 min	0,25-0,35	ASTM D 1238
Density	kg/m ³	957 - 961	ASTM D 4883
Tensile strenght at yield 2 inch/min	Mpa	21	ASTM D 638
Tensile elongation at yield	%	600	ASTM D 790
Heat resisance on Vicka	°C	120	ASTM D 1525
Bell Telephone thermal testing on the breakdown voltage , resistance to cracking when the voltage, at 50 °C	50 °C	1000 h	ASTM D1693

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