

High Density Polyethylene for Injection Moulding (HDPE)

TECHNICAL DATA SHEET

HDPE – T50-500

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 Kiyanly (Balkan region, Turkmenistan).

T50-500 is a high-density polyethylene characterized by a narrow molecular weight. It is intended for injection moulding applications where a good balance of processability and end-use properties are required.

T50-500 CHARACTERISTICS:

- High rigidity
- Glossy surface aspects
- Good impact strength
- Meets FDA requirements of 21CFR 177.1520

Application:

Pails, shopping carts, wheel hubs, general purpose injection moulding



TYPICAL PHYSICAL PROPERTIES

Property	Units	Typical Value	Test Method
Melt flow rate (2.16 kg load)	g/10 min	5,4 - 7,6	ASTM D 1238
Density	kg/m ³	951 - 955	ASTM D 4883
Tensile strenght at yield 50 mm/min	Mpa	24	ASTM D 638
Tensile elongation at yield	%	800	ASTM D 638
Flexural Modulus (1% secant), at 1 mm/min	Mpa	900	ASTM D 790
Notched izod under load	J/m	57	ASTM D 256
Heat resisitance on Vicka	°C	120	ASTM D 1525

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