

Technical Data Sheet

Product: High Density Polyethylene (HDPE) for injection molding (T50-500)

Description

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

Characteristics

- Good rigidity;
- High impact strength;
- Meets FDA requirements of 21CFR 177.1520.

Applications

- Pails,
- Shopping carts,
- Wheel hubs,
- General purpose injection molding.

Specifications

Parameter	Typical Value	Units	Test Method
Melt flow rate (2,16 kg load)	6,5	g/10 min	ASTM D 1238
Density	953	Kg/m ³	ASTM D 4883
Tensile strength at yield	27	MPa	ASTM D 638
Elongation at break	800	%	ASTM D 638
Flexural Modulus	1250	MPa	ASTM D 790
Notched IZOD Impact Strength	64 J/m	ASTM	D 256
Hardness (Shore D)	65	-	ASTM D 2240
Vicat softening point	128	°C	ASTM D 1525

Manufacturer

“Turkmenhimiya” State Concern

Packaging

T50-500 is produced in granules and packed in bags weighing 25 kg., 40 bags per 1 pallet.

Storage and transportation

Polyethylene is stored indoors at a temperature not higher than +30 °C, humidity not higher than 80%.