Iran Petrochemical Reference

HDPE 7000F

HIGH DENSITY POLYETHYLENE

DESCRIPTION

HD7000-F is a high molecular weight, high density polyethylene copolymer which has a broad molecular weight distribution. The design of the product, molecular architecture and density, gives it a unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing thin films with excellent strength and rigidity.

TYPICAL APPLICATIONS

HD- 7000F is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high-quality thin films for multi-wall sack liners and replacement for thin paper products. Films produced with this product can be readily treated and printed to give high quality graphics.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES (1)			
Melt Flow Rate (MFR) at 190 °C and 5 kg load	0.04	g/10 min	ISO 1133
Density at 23 °C (1)	952	kg/m³	ISO 1183
MECHANICAL PROPERTIES (2)			
Tensile Stress at Yield	27	MPa	ISO 2-/1-527
Tensile Stress at Break	>24	MPa	ISO 2-/1-527
Elongation at Break	>500	%	ISO 2-/1-527
Charpy Impact strength	NB	kJ/m²	ISO 1-179
Shore hardness	64	D scale	ISO 868
Stress cracking resistance	>600	Hr	ASTM 1693
Vicat sotiening temperature	131	°C	ISO 11357
Melting temperature	124	°C	ISO 306

(1) Typical values: not to be construed as specification limits.
(2) Based on compression molded sheet. Compression molding of test specimen according to ISO 2-1872 Conditioning of test specimen: temp. 23 °C, relative humidity 24 ,% 50 hours

PROCESSING CONDITIONS

Typical processing conditions for HD7000-F are:
- Melt Temperature: 215 - 200 °C
- Frost line Height: 8-6 times die Ø

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50 °C. ILPC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance.

STORAGE AND HANDLING

25 kg bag ,1375 Kg shrink film palletized.

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