

Doc Name:	Product Data sheet HDPE Production- 7000F	1
-----------	--	---

Description:

7000F is a high molecular weight high density polyethylene Film grade 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.

Application:

Film tackiness at 10-25 micron
 Merchant bag
 T-shirt bag
 Disposal bag
 Liner bag
 Food contact applicable -complies US FDA 21 CFR 177. 1520

Typical Properties:

Typical Test	Units	Test Method	Spec
Melt Flow Index (190°C/2.16kg)	gr/10 min	ASTM D-1238	0.04
Melt Flow Index (190°C/5kg)	gr/10 min	ASTM D-1238	0.20
Density	gr/cm ³	ASTM D-1505	0.953
Vicat Softening Point	°C	ASTM D-1525	124
Melting Point	°C	ASTM D-2117	131
Tensile Strength @ Break	kg.cm ²	ASTM D-882	MD: 620 * TD: 310 *
Tensile Strength @ Yield	kg.cm ²	ASTM D-882	MD: - * TD: 250 *
Elongation @ Break	%	ASTM D-882	MD:240 * TD: 450 *
Elmendorf Tear Strength	g	ASTM D-1922	MD:3 * TD: 80 *
Dart Impact Strength	g	ASTM D-1709	139 *
ESCR (F 50) **	hr	ASTM D-1693	> 400
Izod Impact Notched (23 ⁰ C)	Kg.cm/cm	ASTM D-256	30

Vicat softening point test is performed under loading condition.

* MD= Machine Direction TD= Transverse Direction (the film produced on pilot line 12-micron, BUR 5:1).

** Condition B , Compression Molded , 25% Igepal.



Disclaimer: This information is based on our current knowledge and experience. In view of many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

Doc Name:	Product Data sheet HDPE Production- 7000F	2
--------------	--	---

Note: Bandar Imam Petrochemical Company only guarantees MFI and Density.

Processing method:

Actual extrusion condition depends on the type of using machine, size and film tackiness Recommend melt temperature 195 – 215 °C, frost line Height: 6-8 times die Ø.

Producer:

Bandar Imam Petrochemical Co.

Licensor:

Mitsui chemicals.

Features:

7000 F is a HDPE resin produced via slurry process technology is suitable for Film 10- 25 micron and have low gel content, High stiffness, Good impact resistance and processability.

Product Available Form and Packaging:

The product is supplied in palletized 25 kg bags

Storage:

7000 F should be stored in dry and away from sources of heat and light. Please consult the safety data sheet for more information.

Safety:

Molten polymers could be injured skin or eye so safety glasses and appropriate gloves are suggested to prevent possible thermal injuries. Also, appropriate ventilation is suggested in working by melt polymer. Accumulation of fines or dust particles that are in this grade is not



Doc Name:	Product Data sheet HDPE Production- 7000F	3
--------------	--	---

suitable because of explosion hazard probability. So adequate filters and grounding exists at all time are recommended.

Recycling:

Refer to HDPE Material Safety Data Sheet

Related Documents

Refer to HDPE Material Safety Data Sheet



Disclaimer: *This information is based on our current knowledge and experience. In view of many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments, neither does it imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*