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**Product:** HDPE 7000F

**Producer:** Mehr Petrochemical Co.

**Description:**

7000F is a high-density polyethylene resin; a product of bi-modal process from Mitsui Chemicals, Inc. of Japan.

**Application:**

- Recommend film thickness at 10-25 microns
- High tensile strength with good dart impact strength
- Low gel content
- Good moisture barrier
- Food contact applicable
- Good impact resistance and processability
- Shopping bag and T-shirt bag
- Garbage bag
- Liner bag
- Enhanced ultra-thin film
- High stiffness
- Wide service temperature range, UV resistance

**Typical Properties:**

Typical Test	Test Method	Spec	Unit
<b>Resin Properties</b>			
Melt Flow Rate	ASTM D 1238 @ 190 °C, 2.16 kg	0.04	g/10 min
Density	ASTM D 1505	0.954	g/cm <sup>3</sup>
Melting Point	ASTM D 2117	131	°C
Vicat Softening Point	ASTM D 1525	124	°C
Brittleness Temperature	ASTM D 746	< -60	°C
ESCR	ASTM D 1693 @ 50 °C	> 1000	hrs, F50
(Condition: Compression Molded, 25% Igepal)			
<b>Film Properties</b>			

**Disclaimer:**

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Tensile Strength at Yield	ASTM D 638 @ crosshead speed 50 mm/min	MD: 380*, TD: 250*	Kg/cm <sup>2</sup>
Tensile Strength at Break	ASTM D 638 @ crosshead speed 50 mm/min	MD: 620*, TD: 310*	Kg/cm <sup>2</sup>
Tensile Modulus, 2% Secant	ASTM D 638 @ crosshead speed 50 mm/min	MD:8200*, TD: 8000*	Kg/cm <sup>2</sup>
Elongation at Break	ASTM D 638 @ crosshead speed 50 mm/min	MD: 240*, TD: 450*	%
Elmendorf Tear Strength	ASTM D 1922	MD: 3*, TD: 80*	g
Dart Impact Strength	ASTM D 1709	139*	g
Gloss	ASTM D 2457	5.8	GU
Haze	ASTM D 1003	85.5	%

(\*) Properties obtained from film produced on a pilot line, 10-micron, BUR 5:1, MD= Machine Direction, TD= Transverse Direction Note: Conversion factor for changing unit from Kg/cm<sup>2</sup> to MPa is divided by 10.2

#### Processing Conditions:

The actual extrusion condition depends on type of using machine, size and film thickness of product required.

Generally, melt temperature should be 190 – 210 °C with BUR= 3-5 times and frost line height (FLH)= 8-10 times of die diameter.

#### Product Available Form and Packaging:

- Pellet
- 25 kg loose bag
- Big bag with specified weight

#### Storage:

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Store in original container in tidy according to the Manual Handling and storage from Mehr petrochemical Company.

Product(s) should be stored in dry and dust free location at temperature below 50 °C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and color changes and can have negative effects on the physical properties of this product. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully released and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. The storage area should be stable and not be slopped.

**Safety:**

The product is not classified as a hazardous material.

Please see Material Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product(s).

**Recycling:**

The product is suitable for recycling using modern methods of shredding and cleaning. In- house production waste should be kept clean to facilitate direct recycling.

Please see Material Safety Data Sheet for details on various aspects of safety, recovery and disposal of the product(s).

**Related Documents:**

Material Safety Data Sheet

Statement on compliance to food contact regulations

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