

HD7000F

High Density Polyethylene Resin

Special Characteristics

InnoPlus HD7000F is high density polyethylene film grade which well known for the high quality film applications. This grade is excellent for thin film processing with high mechanical strength, good stiffness and good heat sealability. It is suitable for producing general purpose packaging films in a wide range of size and thickness.

Typical Application : Shopping bags, T-Shirt bags, Bags on roll, Garbage bags, Re-sealable bags, sanitary bags, Plastic gloves

Typical Properties :

| Properties | Value | Unit | Test Method |
|---|----------|--------------------|-------------|
| <i><u>Physical Properties</u></i> | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 0.04 | g/10 min | ASTM D1238 |
| Density | 0.956 | g/cm ³ | ASTM D1505 |
| Vicat softening point @ 10 N, 50 °C/hr | 125 | °C | ASTM D1525 |
| Melting Point | 125 | °C | ASTM D3418 |
| <i><u>Mechanical Properties(Based on compression specimens)</u></i> | | | |
| Tensile Strength @ Yield | 300 | kg/cm ² | ASTM D638 |
| Tensile Strength @ Break | 390 | kg/cm ² | ASTM D638 |
| Elongation @ Break | 820 | % | ASTM D638 |
| Stiffness | 9500 | kg/cm ² | ASTM D747 |
| Flexural Modulus | 12000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 30 (NB)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 64 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | > 1000 | hrs | ASTM D1693 |

* NB = Non Break

Recommendation :

Extruder temperature : 180 - 200 °C

Die temperature : 190 - 210 °C

FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except for articles used for packaging or holding food during cooking.

Note : Properties reported here are typical values of the product, not to be considered as specifications.

PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.