

HD6000F

High Density Polyethylene Resin

Special Characteristics

InnoPlus HD6000F is high density polyethylene film grade which has special feature of output increment, good processability and drawdownability. This grade is suitable for high productivity or high speed machine to produce ultra thin films and general purpose films. InnoPlus HD6000F exhibits high mechanical strength, good stiffness and good heat sealability.

Typical Application : bags on roll, shopping bags, T-Shirt bags, plastic gloves and other general purpose bags

Typical Properties :

| Properties | Value | Unit | Test Method |
|---|----------|--------------------|-------------|
| <i><u>Physical Properties</u></i> | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 0.16 | 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 | 135 | °C | ASTM D3418 |
| <i><u>Mechanical Properties(Based on compression specimens)</u></i> | | | |
| Tensile Strength @ Yield | 260 | kg/cm ² | ASTM D638 |
| Tensile Strength @ Break | 370 | kg/cm ² | ASTM D638 |
| Elongation @ Break | 950 | % | ASTM D638 |
| Stiffness | 8200 | kg/cm ² | ASTM D747 |
| Flexural Modulus | 11000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 27 (NB)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 65 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | > 500 | hrs | ASTM D1693 |

* NB = Non Break

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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 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

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This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

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

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