

## 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 Applications :** bags on roll, shopping bags, T-Shirt bags, plastic gloves and other general purpose bags.

**Typical Properties :**

| Properties                                                    | HD6000F  | Unit               | Test Method |
|---------------------------------------------------------------|----------|--------------------|-------------|
| <b>Physical Properties</b>                                    |          |                    |             |
| Melt Flow Rate (190 °C, 2.16 kg)                              | 0.16     | g/10 min           | ASTM D1238  |
| Density                                                       | 0.956    | g/cm <sup>3</sup>  | ASTM D1505  |
| Vicat softening point                                         | 125      | °C                 | ASTM D1525  |
| Melting Temperature                                           | 135      | °C                 | ASTM D3418  |
| <b>Mechanical Properties (Based on compression specimens)</b> |          |                    |             |
| Tensile Strength at Yield                                     | 260      | kg/cm <sup>2</sup> | ASTM D638   |
| Tensile Strength at Break                                     | 370      | kg/cm <sup>2</sup> | ASTM D638   |
| Elongation at Break                                           | 950      | %                  | ASTM D638   |
| Flexural Modules                                              | 11000    | kg/cm <sup>2</sup> | ASTM D790   |
| Notched Izod Impact Strength                                  | 27(NB) * | kg.cm/cm           | ASTM D256   |
| Durometer Hardness                                            | 65       | Shore D            | ASTM D2240  |
| ESCR, F <sub>50</sub> (Condition B, 25% Igepal)               | >500     | hrs                | ASTM D1693  |

\* NB = Non Break

### Recommendation :

Extruder temperature : 180 - 200 °C

Die temperature : 190 - 210 °C

### FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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

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