

# HD6100F

High Density Polyethylene Resin

## Special Characteristics

InnoPlus HD6100F is high density polyethylene film grade which has good processability, high mechanical strength and good heat seal ability. This grade is suitable for high productivity or high speed machine to produce thin films and general purpose packaging films. The product can also use for matt surface appearance.

**Typical Application :** MATT compounds , General purpose bags

## Typical Properties :

Properties	Value	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 2.16 kg)	0.15	g/10 min	ASTM D1238
Density	0.955	g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	127	°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 <sup>2</sup>	ASTM D638
Tensile Strength @ Break	440	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	1000	%	ASTM D638
Flexural Modulus	12000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	37 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	> 500	hrs	ASTM D1693

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## Recommendation :

Extruder temperature : 180 - 200 °C

Die temperature : 190 - 210 °C

## Disclaimer :

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

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
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**Note :** Properties reported here are typical values of the product, not to be considered as specifications.

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