

# HD8000F

High Density Polyethylene Resin

## Product Description

InnoPlus HD8000F is high density polyethylene film grade which has high molecular weight and possesses broad molecular weight distribution. This grade exhibits excellent mechanical strength even low gauges, very high impact strength, good stiffness and good heat sealability. InnoPlus HD8000F is suitable for wide film and heavy duty applications.

**Typical Application :** Liner films, Industrial films, Garbage bags, Plastic Sheets and Table clothes

## Typical Properties :

Properties	Value	Unit	Test Method
<i><b>Physical Properties</b></i>			
Melt Flow Rate (190 °C, 2.16 kg)	0.03	g/10 min	ASTM D1238
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	123	°C	ASTM D1525
Melting Point	128	°C	ASTM D2117
<i><b>Mechanical Properties</b></i>			
Tensile Strength @ Yield	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	320	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	790	%	ASTM D638
Stiffness	7900	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	12500	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	52 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	62	Shore D	ASTM D2240
ESCR (Condition B, 25 % Igepal)	> 2000	hrs, F50	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.

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