

# HD8225B

High Density Polyethylene Resin

**Special Characteristics :** InnoPlus HD8225B is extra high molecular weight high density polyethylene blow molding grade. Furthermore, they are UV stabilizer added HDPE that provide extremely outstanding UV resistance specially designed for long-term durability service life outdoor applications such as solar floating pontoons, road barriers and industrial products. It also has the excellent processability and exhibits very high impact strength, stiffness, superior environment stress crack resistance.

**Typical Applications :** outdoor applications such as solar floating pontoon, road barrier and industrial products.

**Typical Properties :**

Properties	HD8225B	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	0.03	g/10 min	ASTM D1238
Melt Flow Rate (190 °C, 21.6 kg)	4	g/10 min	ASTM D1238
Density	0.955	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	128	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418
<b>Mechanical Properties (Based on compression specimens)</b>			
Tensile Strength at Yield	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	370	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	850	%	ASTM D638
Stiffness	9,000	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	12,000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	64 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	>1,000	hrs	ASTM D1693

\* NB = Non Break

**Recommendation :**

Extruder temperature : 195 - 220 °C

Die temperature : 200 - 220 °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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