

## HD8200B

High Density Polyethylene Resin

**Special Characteristics :** InnoPlus HD8200B is extra high molecular weight high density polyethylene blow molding grade which is recommended for 20-200 litre drums. It has excellent processability and exhibits very high impact strength, stiffness and superior environment stress crack resistance.

**Typical Applications :** Hazardous chemical drums, Agricultural chemical drums.

**Typical Properties :**

Properties	HD8200B	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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