

# HD7800B

High Density Polyethylene Resin

**Special Characteristics :** InnoPlus HD7800B is extra high molecular weight high density polyethylene blow molding grade which is recommended for jerry cans, large size drums and solar floating pontoons. It has excellent processability and exhibits very high impact strength, stiffness and superior environmental stress cracking resistance.

**Typical Applications :** Hazardous chemical drums, Agricultural chemical drums, Solar floating pontoons

**Typical Properties :**

Properties	HD7800B	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	0.04	g/10 min	ASTM D1238
Melt Flow Rate (190 °C, 21.6 kg)	6.0	g/10 min	ASTM D1238
Density	0.950	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	125	°C	ASTM D1525
Melting Temperature	130	°C	ASTM D3418
<b>Mechanical Properties</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
Flexural Modulus	12,000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	72 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	61	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	>1,000	hrs	ASTM D1693

\* NB = Non Break

**Recommendation :**

Extruder temperature : 175 - 190 °C

Die temperature : 180 - 200 °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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