

# 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, 5 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                              | 134      | °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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