

# HD1010J

High Density Polyethylene Resin

## Special Characteristics

InnoPlus HD1010J is high density polyethylene injection molding grade. They are tailored with very narrow molecular weight distribution (MWD) and high flow ability. They have optimum strength property and exhibits excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

**Typical Application :** Toys, Auto parts, Household products, masterbatch carrier and Beverage spout caps.

## Typical Properties :

Properties	Value	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 2.16 kg)	20	g/10 min	ASTM D1238
Density	0.956	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point @ 10 N, 50 °C/hr	122	°C	ASTM D1525
Melting Point	127	°C	ASTM D3418
<i><u>Mechanical Properties(Based on compression specimens)</u></i>			
Tensile Strength @ Yield	290	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	140	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	200	%	ASTM D638
Flexural Modulus	12000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	4 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	Initial Break	hrs	ASTM D1693

\* C = Complete Break

# HD1010J

High Density Polyethylene Resin

**Processing Condition :**

Injection Molding temperature : 190 - 230 °C

**FDA Statement :**

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable for articles used for packaging or holding food during cooking.

**Disclaimer :**

This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
- To our best knowledge, information contained herein is true and accurate as of the date of its publication. However, we make no representations or warranties with respect to accuracy, reliability and completeness of the information contained herein for any purpose.
- No warranties, express or implied, which extend beyond the description herein are given by us. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- We assume no liability for any use of the product in combination with other materials. The information contained herein entirely relates to the product when it is not used in combination with any third party's materials.

**Note :** Properties reported here are typical values of the product, not to be considered as specifications.

PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.