

# 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 Applications :** Toys, Auto parts, Household products, masterbatch carrier and Beverage spout caps.

**Typical Properties :**

Properties	HD1010J	Unit	Test Method
<b>Physical Properties</b>			
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	122	°C	ASTM D1525
Melting Temperature	130	°C	ASTM D3418

<b>Mechanical Properties (compression specimens)</b>			
Tensile Strength at Yield	290	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	140	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	200	%	ASTM D638
Flexural Modulus	12,000	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

**Recommendation:**

Injection molding temperature: 190 - 230 °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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