

# HD1600J

High Density Polyethylene Resin

**Special Characteristics:** InnoPlus HD1600J is high density polyethylene injection molding grade. They are tailored with narrow molecular weight distribution (MWD) and high flow ability. They have optimum strength property which used for general part, auto part, toy and house ware.

**Typical Applications:** Toys, Auto parts, Household products

**Typical Properties:**

Properties	HD1600J	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	12	g/10 min	ASTM D1238
Density	0.958	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	118	°C	ASTM D1525
Melting Temperature	132	°C	ASTM D3418
<b>Mechanical Properties (compression specimens)</b>			
Tensile Strength at Yield	280	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	150	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	210	%	ASTM D638
Stiffness	9,100	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	12,500	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	3 (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.