

# HD2308J

High Density Polyethylene Resin

**Special Characteristics :** InnoPlus HD2308J is high density polyethylene injection molding grade. They are tailored with narrow molecular weight distribution (MWD) result for good impact strength. Furthermore, they are UV stabilizer added that give the excellent UV resistance for outdoor applications such as auto part and industrial product.

**Typical Applications :** Crates, Household products, Outdoor application

**Typical Properties :**

Properties	HD2308J	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	6	g/10 min	ASTM D1238
Density	0.962	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	125	°C	ASTM D1525
Melting Temperature	136	°C	ASTM D3418
<b>Mechanical Properties (compression specimens)</b>			
Tensile Strength at Yield	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	170	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Stiffness	11,000	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	15,000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	4 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	65	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 10 % Igepal)	5	hrs	ASTM D1693

\* C = Complete Break

**Recommendation :**

Injection molding process— Extrusion 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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