

# HD2208J

High Density Polyethylene Resin

## Special Characteristics

InnoPlus HD2208J 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 Application :** Toys, Auto parts, Household products

## Typical Properties :

Properties	Value	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 2.16 kg)	3.7	g/10 min	ASTM D1238
Density	0.961	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point @ 10 N, 50 °C/hr	122	°C	ASTM D1525
Melting Point	134	°C	ASTM D3418
<i><u>Mechanical Properties(Based on compression specimens)</u></i>			
Tensile Strength @ Yield	310	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	220	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	11000	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	13000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	65	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	6	hrs	ASTM D1693

\* C = Complete Break

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**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.

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

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

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