

# HD2228J

High Density Polyethylene Resin

## Special Characteristics

InnoPlus HD2228J is high density polyethylene injection molding grade. They are tailored with very narrow molecular weight distribution (MWD) result for good impact strength and better processability. Furthermore, they are UV stabilizer added that give the excellent UV resistance for outdoor applications such as auto part and industrial product.

**Typical Application :** Crates, Pallets, Garbage bins, Fruit baskets and Container lids

## Typical Properties :

Properties	Value	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190 °C, 2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.960	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point @ 10 N, 50 °C/hr	127	°C	ASTM D1525
Melting Point	136	°C	ASTM D3418
<i><u>Mechanical Properties(Based on compression specimens)</u></i>			
Tensile Strength @ Yield	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	300	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	6 (P)*	kg.cm/cm	ASTM D256
Durometer Hardness	66	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 25 % Igepal)	6	hrs	ASTM D1693

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

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