

# HD2208 / HD2308J

High Density  
Polyethylene Resin

## Product Description :

InnoPlus HD2208J and HD2308J are 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 :** Crates, Pallets, Garbage bins, Industrial tubes, Fruit baskets, Caps and Closures

## Typical Properties :

Properties	Typical Value		Unit	Test Method
	HD2208J	HD2308J		
<b><u>Physical Properties</u></b>				
Melt Flow Rate (190 °C, 2.16 kg)	3.7	6	g/10 min	ASTM D1238
Density	0.961	0.962	g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	125	125	°C	ASTM D1525
Melting Point	131	131	°C	ASTM D2117
<b><u>Mechanical Properties</u></b>				
Tensile Strength @ Yield	310	300	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	220	120	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	> 1000	750	%	ASTM D638
Stiffness	11000	11000	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	12000	15000	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact	5 (C) *	4 (C) *	kg.cm/cm	ASTM D256

## Strength

Durometer Hardness	65	65	Shore D	ASTM D2240
ESCR (Condition B, 25 % Igepal)	6	5	hrs, F50	ASTM D1693

\* C = Complete Break

## Recommendation :

Extruder temperature : 170 - 200 °C

Nozzle temperature : 185 - 205 °C

## FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except for articles used for packaging or holding food during cooking.

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

PTT Chemical makes no representations as to the accuracy or completeness of the information contained herein.

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