

HD1600JP

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD1600JP is good flowability high density polyethylene which can be processed in either injection or compression molding. This grade has excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

Typical Applications : Beverage caps for drinking or mineral water and non- carbonated soft drink product

Typical Properties :

Properties	HD1600JP	Unit	Test Method
<i>Physical Properties</i>			
Melt Flow Rate (190°C,2.16 kg)	12	g/10 min	ASTM D1238
Density	0.958	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	120	°C	ASTM D1525
Melting Point	132	°C	ASTM D3418
<i>Mechanical Properties</i>			
Tensile Strength @ Yield	290	kg/cm ²	ASTM D638
Tensile Strength @ Break	200	kg/cm ²	ASTM D638
Elongation @ Break	230	%	ASTM D638
Stiffness	9100	kg/cm ²	ASTM D747
Flexural Modulus	12500	kg/cm ²	ASTM D790
Notched Izod Impact Strength	3 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	64	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	3	hrs	ASTM D1693

* C = Complete Break

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

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

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Processing Condition :

Injection Molding Process— Extrusion Temperature : 160 - 190 °C,
Compression Molding process— Extrusion Temperature 140 - 165 °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.

Disclaimer :

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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