

HD2200JP

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD2200JP is high density polyethylene which can be processed in either injection or compression molding. This grade provides easy processing characteristics and exhibits excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

Typical Applications : Beverage caps for drinking, mineral water, tea and fruit juice

Typical Properties :

Properties	HD2200JP	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190°C, 2.16 kg)	3.5	g/10 min	ASTM D1238
Density	0.961	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	126	°C	ASTM D1525
Melting Point	135	°C	ASTM D3418
<i><u>Mechanical Properties</u></i>			
Tensile Strength @ Yield	310	kg/cm ²	ASTM D638
Tensile Strength @ Break	210	kg/cm ²	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	11000	kg/cm ²	ASTM D747
Flexural Modulus	14500	kg/cm ²	ASTM D790
Notched Izod Impact Strength	5 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	66	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	4	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 : 170 - 200 °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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