

HD2401C

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD2401C is high density polyethylene with very narrow molecular weight distribution (MWD). They can be processed in either injection or compression molding and provides easy processing characteristics. Moreover, this grade tailor with high stiffness, good tensile strength and exhibits superior organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

Typical Applications : Beverage caps for drinking and mineral water.

Typical Properties :

Properties	HD2401C	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190°C, 2.16 kg)	7	g/10 min	ASTM D1238
Density	0.964	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	127.5	°C	ASTM D1525
Melting Point	136	°C	ASTM D3418
<i><u>Mechanical Properties</u></i>			
Tensile Strength @ Yield	310	kg/cm ²	ASTM D638
Tensile Strength @ Break	175	kg/cm ²	ASTM D638
Elongation @ Break	750	%	ASTM D638
Stiffness	11000	kg/cm ²	ASTM D747
Flexural Modulus	15000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	4 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	65	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	5	hrs	ASTM D1693

* C = Complete Break

Processing Condition :

Injection Molding Process— Extrusion Temperature : 170 - 200 °C

Compression Molding process— Extrusion Temperature 140 - 165 °C

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

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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.

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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