

# 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 pre-vent 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
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	6.5	g/10 min	ASTM D1238
Density	0.962	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	127.5	°C	ASTM D1525
Melting Temperature	135	°C	ASTM D3418
<b>Mechanical Properties (compression specimens)</b>			
Tensile Strength at Yield	313	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	252	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	>1000	%	ASTM D638
Flexural Modulus	15,800	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	5.3 (C)*	kg.cm/cm	ASTM D256
Durometer Hardness	67	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 10 % Igepal)	7	hrs	ASTM D1693

\* C = Complete Break

**Recommendation :**

Injection molding process— Extrusion temperature : 170 - 230 °C

Compression Molding process— Extrusion Temperature 160 - 230 °C

**FDA Statement :**

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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

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