

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
Physical Properties			
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	127.5	°C	ASTM D1525
Melting Temperature	135	°C	ASTM D3418
Mechanical Properties (compression specimens)			
Tensile Strength at Yield	310	kg/cm ²	ASTM D638
Tensile Strength at Break	175	kg/cm ²	ASTM D638
Elongation at Break	750	%	ASTM D638
Stiffness	11,000	kg/cm ²	ASTM D747
Flexural Modulus	15,000	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

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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