

HD2220C

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD2220C 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 exhibits superior 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	HD2220C	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	4	g/10 min	ASTM D1238
Density	0.960	g/cm ³	ASTM D1505
Vicat softening point	127	°C	ASTM D1525
Melting Temperature	134	°C	ASTM D3418
Mechanical Properties (compression specimens)			
Tensile Strength at Yield	300	kg/cm ²	ASTM D638
Tensile Strength at Break	300	kg/cm ²	ASTM D638
Elongation at Break	>1,000	%	ASTM D638
Stiffness	11,000	kg/cm ²	ASTM D747
Flexural Modulus	13,000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	7 (H)*	kg.cm/cm	ASTM D256
Durometer Hardness	66	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	6	hrs	ASTM D1693

* H = Hinge 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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