

HD3000C

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD3000C are high density polyethylene which are specially designed for beverage caps. HD3000C have excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water. This grade show good processability in either injection molding or compression molding machine.

Additive InnoPlus HD3000C : slip agent grade

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

Typical Properties :

Properties	HD3000C	Unit	Test Method
Physical Properties			
Melt Flow Rate (190 °C, 2.16 kg)	2.0	g/10 min	ASTM D1238
Density	0.954	g/cm ³	ASTM D1505
Vicat softening point	122	°C	ASTM D1525
Melting Temperature	132	°C	ASTM D3418
Mechanical Properties			
Tensile Strength at Yield	260	kg/cm ²	ASTM D638
Tensile Strength at Break	320	kg/cm ²	ASTM D638
Elongation at Break	900	%	ASTM D638
Stiffness	7,900	kg/cm ²	ASTM D747
Flexural Modulus	11,300	kg/cm ²	ASTM D790
Notched Izod Impact Strength	5 (P)*	kg.cm/cm	ASTM D256
Durometer Hardness	62	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 10 % Igepal)	24	hrs	ASTM D1693

* P = Partial 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.