

HD3000C

High Density Polyethylene Resin

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

Additive InnoPlus HD3000C : slip agent grade

Typical Applications : Beverage caps for drinking or mineral water and non- carbonated soft drink product

Typical Properties :

Properties	Typical Value	Unit	Test Method
HD3000C			
<i><u>Physical Properties</u></i>			
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 @ 10 N, 50 °C/hr	122	°C	ASTM D1525
Melting Point	132	°C	ASTM D3418
<i><u>Mechanical Properties</u></i>			
Tensile Strength @ Yield	260	kg/cm ²	ASTM D638
Tensile Strength @ Break	320	kg/cm ²	ASTM D638
Elongation @ Break	900	%	ASTM D638
Stiffness	7900	kg/cm ²	ASTM D747
Flexural Modulus	11300	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

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

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Processing Condition :

Injection Molding Process— Extrusion Temperature : 170 - 210 °C,
Compression Molding process— Extrusion Temperature 160 - 185 °C

FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 (c) (2.1) and (2.2) regulation for polyethylene used in articles that contact food suitable 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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