

# HD3001C

High Density Polyethylene Resin

**Special Characteristics :** InnoPlus HD3001C are high density polyethylene which are specially designed for beverage caps. HD3001C 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 HD3001C : non slip agent grade

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

**Typical Properties :**

Properties	HD3001C	Unit	Test Method
<b>Physical Properties</b>			
Melt Flow Rate (190 °C, 2.16 kg)	2.0	g/10 min	ASTM D1238
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Vicat softening point	122	°C	ASTM D1525
Melting Temperature	132	°C	ASTM D3418
<b>Mechanical Properties</b>			
Tensile Strength at Yield	260	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength at Break	320	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	900	%	ASTM D638
Stiffness	7,900	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	11,300	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	5 (P)*	kg.cm/cm	ASTM D256
Durometer Hardness	62	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (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.

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however, we do not assume any liability what so ever for the accuracy and completeness of such information. We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose. It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products. No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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

GTC makes no representations as to the accuracy or completeness of the information contained herein.