

# HD3502C

High Density Polyethylene Resin

**Special Characteristics** : InnoPlus HD3502C are bimodal high density polyethylene with excellent environmental stress cracking resistance (ESCR) and easy processing. With distinguishing stress cracking resistance, this grade is suitable for beverage caps and closures for new caps design.

Additive : InnoPlus HD3502C : non slip agent grade

**Typical Applications** : Beverage caps for drinking and mineral water.

**Typical Properties** :

Properties	Typical Value	Unit	Test Method
	HD3502C		
<i>Physical Properties</i>			
Melt Flow Rate (190°C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.956	g/cm <sup>3</sup>	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	120	°C	ASTM D1525
Melting Point	130	°C	ASTM D3418
<i>Mechanical Properties</i>			
Tensile Strength @ Yield	240	kg/cm <sup>2</sup>	ASTM D638
Tensile Strength @ Break	270	kg/cm <sup>2</sup>	ASTM D638
Elongation @ Break	>1000	%	ASTM D638
Stiffness	8100	kg/cm <sup>2</sup>	ASTM D747
Flexural Modulus	11500	kg/cm <sup>2</sup>	ASTM D790
Notched Izod Impact Strength	6 (NB) *	kg.cm/cm	ASTM D256
Durometer Hardness	62	Shore D	ASTM D2240
ESCR, F <sub>50</sub> (Condition B, 10 % Igepal)	460	hrs	ASTM D1693

\* NB = Non Break

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

PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.

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## Processing Condition :

Injection Molding Process— Extrusion Temperature 180 - 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.

- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
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