

HD7000H

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD7000H is high density polyethylene which has outstanding mechanical strength, good weathering resistance and excellent product appearance. It is suitable to produce not only truck-bed liner from sheet extrusion and thermoforming process but also automotive fuel tanks from blow molding process.

Typical Applications : Truck-bed liner, Automotive fuel tanks

Typical Properties :

Properties	HD7000H	Unit	Test Method
<i><u>Physical Properties</u></i>			
Melt Flow Rate (190°C, 2.16 kg)	0.1	g/10 min	ASTM D1238
Melt Flow Rate (190°C, 21.6 kg)	10	g/10 min	ASTM D1238
Density	0.952	g/cm ³	ASTM D1505
Vicat Softening Point @ 10 N, 50 °C/hr	126	°C	ASTM D1525
Melting Point	130	°C	ASTM D3418
<i><u>Mechanical Properties (Based on compression specimens)</u></i>			
Tensile Strength @ Yield	280	kg/cm ²	ASTM D638
Tensile Strength @ Break	400	kg/cm ²	ASTM D638
Elongation @ Break	900	%	ASTM D638
Stiffness	8500	kg/cm ²	ASTM D747
Flexural Modulus	11000	kg/cm ²	ASTM D790
Notched Izod Impact Strength	47 (NB)*	kg.cm/cm	ASTM D256
Durometer Hardness	63	Shore D	ASTM D2240
ESCR, F ₅₀ (Condition B, 25 % Igepal)	>1000	hrs	ASTM D1693

* NB = Non Break

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Processing Condition :

Temperature profile

Thermoforming process : 210 - 230 °C

Blow molding process : 190 - 220 °C

FDA Statement :

HDPE under the brand InnoPlus complies with U.S. FDA 21 CFR 177.1520 regulation for polyethylene used in articles that contact food except 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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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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