

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

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