

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 |
|---|----------|--------------------|-------------|
| Physical Properties | | | |
| 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 | 126 | °C | ASTM D1525 |
| Melting Temperature | 130 | °C | ASTM D3418 |
| Mechanical Properties (Based on compression specimens) | | | |
| Tensile Strength at Yield | 280 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 400 | kg/cm ² | ASTM D638 |
| Elongation at Break | 900 | % | ASTM D638 |
| Flexural Modulus | 11,000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 42 (NB)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 63 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | >1,000 | hrs | ASTM D1693 |

* NB = Non Break

Recommendation:

Temperature profile

Thermoforming process: 210 - 230 °C

Blow molding process : 190 - 220 °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.

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

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