

HD4200B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD4200B is high density polyethylene blow molding grade which is characterized by high rigidity, good appearance and also have special feature of excellent processability. It is suitable for high productivity or high speed blow molding machine.

Typical Applications : Food packaging, Milk bottles, Drinking water bottles

Typical Properties :

| Properties | HD4200B | Unit | Test Method |
|--|---------|--------------------|-------------|
| <i><u>Physical Properties</u></i> | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 0.67 | g/10 min | ASTM D1238 |
| Density | 0.966 | g/cm ³ | ASTM D1505 |
| Vicat Softening Point @ 10 N, 50 °C/hr | 125 | °C | ASTM D1525 |
| Melting Point | 135 | °C | ASTM D3418 |
| <i><u>Mechanical Properties (Based on compression specimens)</u></i> | | | |
| Tensile Strength @ Yield | 310 | kg/cm ² | ASTM D638 |
| Tensile Strength @ Break | 230 | kg/cm ² | ASTM D638 |
| Elongation @ Break | >1000 | % | ASTM D638 |
| Flexural Modulus | 18000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 13 (P)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 65 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | 25 | hrs | ASTM D1693 |

* P = Partial 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 :

Extruder temperature : 160 - 180 °C

Die temperature : 180 - 200 °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.

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