

HD1010J

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD1010J is high density polyethylene injection molding grade. They are tailored with very narrow molecular weight distribution (MWD) and high flow ability. They have optimum strength property and exhibits excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water.

Typical Applications : Toys, Auto parts, Household products, masterbatch carrier and Beverage spout caps.

Typical Properties :

| Properties | HD1010J | Unit | Test Method |
|--|---------------|--------------------|-------------|
| Physical Properties | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 20 | g/10 min | ASTM D1238 |
| Density | 0.956 | g/cm ³ | ASTM D1505 |
| Vicat softening point | 122 | °C | ASTM D1525 |
| Melting Temperature | 130 | °C | ASTM D3418 |
| Mechanical Properties (compression specimens) | | | |
| Tensile Strength at Yield | 290 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 140 | kg/cm ² | ASTM D638 |
| Elongation at Break | 200 | % | ASTM D638 |
| Flexural Modulus | 12,000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 4 (C)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 64 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | Initial Break | hrs | ASTM D1693 |

* C = Complete Break

Recommendation:

Injection molding temperature: 190 - 230 °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.