

HD9100B

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD9100B is extra high molecular weight high density polyethylene blow molding grade which is recommended for 20-220 litre drums. It has excellent processability and exhibits very high impact strength and superior environment stress crack resistance.

Typical Applications : Hazardous chemical drums, Agricultural chemical drums.

Typical Properties :

| Properties | HD9100B | Unit | Test Method |
|--|----------|--------------------|-------------|
| Physical Properties | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 0.01 | g/10 min | ASTM D1238 |
| Melt Flow Rate (190 °C, 21.6 kg) | 2.5 | g/10 min | ASTM D1238 |
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Vicat softening point | 126 | °C | ASTM D1525 |
| Melting Temperature | 134 | °C | ASTM D3418 |
| Mechanical Properties (Based on com-pression specimens) | | | |
| Tensile Strength at Yield | 250 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 400 | kg/cm ² | ASTM D638 |
| Elongation at Break | 720 | % | ASTM D638 |
| Flexural Modulus | 10,000 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 85 (NB)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 62 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 25 % Igepal) | >1,000 | hrs | ASTM D1693 |

* NB = Non Break

Recommendation :

Extruder temperature : 195 - 220 °C

Die temperature : 200 - 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.