

HD3001C

High Density Polyethylene Resin

Special Characteristics : InnoPlus HD3001C are high density polyethylene which are specially designed for beverage caps. HD3001C have excellent organoleptic properties which prevent unpleasant odor and taste from cap or closure to transfer to water. This grade show good processability in either injection molding or compression molding machine.

Additive InnoPlus HD3001C : non slip agent grade

Typical Applications : Beverage caps for drinking mineral water, tea and fruit juice

Typical Properties :

| Properties | HD3001C | Unit | Test Method |
|----------------------------------|---------|-------------------|-------------|
| Physical Properties | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Density | 0.954 | g/cm ³ | ASTM D1505 |
| Vicat softening point | 122 | °C | ASTM D1525 |
| Melting Temperature | 132 | °C | ASTM D3418 |

| | | | |
|--|--------|--------------------|------------|
| Mechanical Properties | | | |
| Tensile Strength at Yield | 260 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 320 | kg/cm ² | ASTM D638 |
| Elongation at Break | 900 | % | ASTM D638 |
| Stiffness | 7,900 | kg/cm ² | ASTM D747 |
| Flexural Modulus | 11,300 | kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 5 (P)* | kg.cm/cm | ASTM D256 |
| Durometer Hardness | 62 | Shore D | ASTM D2240 |
| ESCR, F ₅₀ (Condition B, 10 % Igepal) | 24 | hrs | ASTM D1693 |

* P = Partial Break

Recommendation :

Injection molding process— Extrusion temperature : 170 - 230 °C

Compression Molding process— Extrusion Temperature 160 - 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.

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

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