

HD2502C

High Density Polyethylene Resin

Special Characteristics: InnoPlus HD2502C is high density polyethylene which specially designed for beverage caps application. InnoPlus HD2502C exhibit very good processibility and has excellent organoleptic properties.

Additive InnoPlus HD2502C: non slip agent grade

Typical Applications: Beverage caps for mineral, still and sparkling water etc.

Typical Properties:

| Properties | HD2502C | Unit | Test Method |
|--|----------|--------------------|-------------|
| Physical Properties | | | |
| Melt Flow Rate (190 °C, 2.16 kg) | 0.86 | g/10 min | ASTM D1238 |
| Density | 0.962 | g/cm ³ | ASTM D1505 |
| Vicat Softening Point @ 10 N, 50 °C /hr | 126 | °C | ASTM D1525 |
| Melting Temperature | 132 | °C | ASTM D3418 |
| Mechanical Properties | | | |
| Tensile Strength at Yield | 305 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 262 | kg/cm ² | ASTM D638 |
| Elongation at Break | >1000 | % | ASTM D790 |
| Flexural Modules | 15,500 | kg/cm ² | ASTM D256 |
| Notched Izod Impact Strength | 4.4(C) * | kg.cm/cm | ASTM D2240 |
| Durometer Hardness | 65.5 | Shore D | ASTM D1693 |
| ESCR, F ₅₀ (Condition B, 10 % Igepal) | 74 | hrs | |

* C = Complete Break

Recommendation:

Injection molding process— Extrusion temperature: 180 -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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