

HD-5030UA High Density polyethylene

1)Product Description

HD-5030UA is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding application requiring very high environmental stress cracking resistance. Articles produced from this grade exhibit excellent impact strength and stiffness, low warpage, high purity and quality controlled organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

2)Applications

- Caps & closures for the packaging of sparkling water and carbonated soft drinks.
- Technical parts.

3)Typical data

| Property | Test Method | Unit | Typical Value |
|-----------------------------|-------------|--------------------|---------------|
| MFI(190°C/ 2.16Kg) | ASTM D 1238 | gr/10Min | 2.0 |
| MFI(190°C / 5.0Kg) | | | - |
| Density | ASTM D 1505 | gr/cm ³ | 0.950 |
| Anti Oxidant | | | √ |
| Slip Agent | | | √ |
| UV Stabilizer | | | √ |
| Flexural Modulus | ASTM D 790 | MPa | 1100 |
| Tensile Strength at yield | ASTM D 638 | MPa | 27 |
| Elongation at Break | ASTM D 638 | % | 1000 |
| Charpy Impact Strength | ASTM D 256 | Kj/m ² | 15 |
| Hardness Shore D | ASTM D 2240 | - | 65 |
| ESCR, F50, 10% Igepal, | ASTM D1894 | hr | 30 |
| Vicat Softening Temperature | ASTM D 1525 | °C | 123 |
| Melting Point | ASTM D2117 | °C | 130 |

The above data are typical laboratory average. They are intended to serve as guide only.

Producer: Tabriz Petrochemical Co. Licensor: BP Packing: 25
Kg plastic bag