

Eltex® HD5211EA-B

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

Eltex® HD5211EA-B is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for the injection moulding of caps & closures for the packaging of beverages. Thanks to high purity and excellent organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages.

Typical applications

Caps & closures for the packaging of still mineral water, aromatized waters and juices

Caps & closures for the packaging of medical and pharmaceutical applications

Benefits and Features

Easy processing

Good impact strength

Low warpage

Slip agent free grade

Excellent, quality controlled organoleptic properties. In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing.

| General Information | | | |
|---|--------------------------------------|-------------------|--------------|
| Features | High purity | | |
| | Low warpage | | |
| | Copolymer | | |
| | Impact resistance, good | | |
| | Workability, good | | |
| | Good sensory characteristics | | |
| | Good liquidity | | |
| | Narrow molecular weight distribution | | |
| Uses | Shield | | |
| | Shell | | |
| Agency Ratings | European food contact, not rated | | |
| RoHS Compliance | Contact manufacturer | | |
| Forms | Particle | | |
| Processing Method | Injection blowing molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.951 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 11 | g/10 min | ISO 1133 |
| Environmental Stress-Cracking Resistance | 6.00 | hr | ASTM D1693 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1100 | MPa | ISO 527-2/1B |
| Tensile Stress (Yield) | 26.0 | MPa | ISO 527-2/1B |
| Impact | Nominal Value | Unit | Test Method |

| | | | |
|---------------------------------------|-----|-------------------|---------|
| Charpy Notched Impact Strength (23°C) | 3.5 | kJ/m ² | ISO 179 |
|---------------------------------------|-----|-------------------|---------|

Additional Information


The value listed as Density ASTM D1183, was tested in accordance with ASTM D1872. The value listed as Eniro. Stress Crack Res. ASTM D1693, was tested in accordance with INEOS test methods. Organoleptic Properties, INEOS methods: OK

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