

Eltex® Superstress™ CAP311

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

ELTEX® Superstress™ CAP311 is a High Density Polyethylene copolymer manufactured by INEOS Olefins & Polymers Europe using its proprietary supported catalyst & process, particularly intended for the injection and compression moulding of screw caps for the packaging of beverages. It is especially suited for applications requiring excellent processability, high rigidity and enhanced stress cracking resistance. Thanks to high purity and excellent organoleptic properties it is well suited for packaging in direct contact with beverages and sensitive food.

Benefits & Features

Very good injectability (MFR 11-like resin)

High rigidity

Good stress cracking resistance

Improved rigidity/stress cracking resistance compromise

Excellent quality controlled organoleptic properties

Slip agent free grade

Applications

Injection Moulding and Compression Moulding of Caps & Closures for the packaging of still mineral water and slightly carbonated or pressurized beverages

| General Information | | | |
|--|--|-------------------|-----------------|
| Features | High purity Rigidity, high High ESCR (Stress Cracking Resistance) High density Copolymer Workability, good Good sensory characteristics Compliance of Food Exposure | | |
| Uses | Packaging Shield Food packaging Shell | | |
| RoHS Compliance | Contact manufacturer | | |
| Processing Method | Compression molding Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density (23°C) | 0.960 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 4.0 | g/10 min | ISO 1133 |
| Environmental Stress-Cracking Resistance ¹ (40°C, 10% Igepal) | 12.0 | hr | Internal method |
| Mechanical | Nominal Value | Unit | Test Method |

| | | | |
|--|------|-----|-------------|
| Tensile Modulus (23°C) | 1500 | MPa | ISO 527-2/1 |
| Injection instructions | | | |
| In order to preserve the excellent organoleptic properties, it is important not to exceed a melt temperature of 250°C during processing. | | | |
| NOTE | | | |

1. 4 bar

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