

Eltex® Superstress™ CAP602

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

Eltex® Superstress™ CAP602 is a high-density polyethylene copolymer manufactured by INEOS Polyolefins using its proprietary supported catalyst & process particularly intended for the injection moulding of screw caps for the packaging of beverages. It is especially suitable for applications requiring outstanding environmental stress cracking resistance and thanks to high purity and excellent organoleptic properties, particularly intended for packaging in direct contact with beverages.

Applications:

Injection of caps & closures for the packaging of sparkling water and carbonated soft drinks

Use in high-demanding applications e.g. warm countries and very high carbonation levels

Use in reduced weight caps designs

Benefits and Features:

Outstanding stress cracking resistance

Good processing performances

Very high impact strength

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.

Slip agent free grade

| General Information | | | |
|---|--|-------------------|-----------------|
| Features | Copolymer Food Contact Acceptable Good Organoleptic Properties Good Processability High Density High ESCR (Stress Crack Resist.) High Purity | | |
| Uses | Caps Closures | | |
| RoHS Compliance | Contact Manufacturer | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.953 | g/cm ³ | ISO 1872-1 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 0.80 | g/10 min | ISO 1133 |
| Environmental Stress-Cracking Resistance | > 40.0 | hr | Internal Method |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 1200 | MPa | ISO 527-2/1B |
| Tensile Stress (Yield) | 26.0 | MPa | ISO 527-2/1B |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength (23°C) | 9.0 | kJ/m ² | ISO 179 |
| Injection | Nominal Value | Unit | |

Processing (Melt) Temp

< 250

°C

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