



# Eltex® Superstress™ CAP602

## Product Technical Information

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.

## Typical 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

Properties		Test Methods	Values	Units
<b>Physical</b>				
Density		ISO 1872	953	kg/m <sup>3</sup>
Melt Flow Rate	2.16 kg load	ISO 1133	0.8	g/10min
<b>Mechanical</b>				
Tensile Modulus		ISO 527 -1&2 (1B)	1200	MPa
Tensile Strength	@ Yield	ISO 527 -1&2 (1B)	26	MPa
Charpy Impact Strength, 23°C		ISO 179	9.0	kJ/m <sup>2</sup>
Environmental Stress Cracking Resistance (ESCR)		INEOS	> 40	h
<b>Other</b>				
Organoleptic properties		INEOS	OK	-

The values given are typical values measured on the product. These values should not be considered as specification



# Eltex® Superstress™ CAP602

The high performance HDPE product, produced with INEOS proprietary leading edge processes, is protected by some or all of the following patents and patents applications: EP603935B, EP134971A, EP1420046A, EP1482008A, EP1544244A, WO03/039984A; EP1441959A, EP1462378A, EP1468932A and EP1278797B.

## **Storage**

Eltex® Superstress™ CAP602 should be stored in a dry dust free environment, away from direct sunlight exposure and at temperature below 45°C.