

# ELTEX<sup>®</sup> Superstress<sup>™</sup> CAP602

## Product Technical Information

ELTEX<sup>®</sup> Superstress<sup>™</sup> CAP602 is a High Density Polyethylene copolymer manufactured by INEOS Olefins & Polymers Europe using its proprietary supported catalyst & process, particularly intended for the injection moulding of screw caps for the packaging of beverages.

## Benefits & Features

- Outstanding stress cracking resistance
- Good processing performances
- Very high impact strength
- Excellent quality controlled organoleptic properties
- Slip agent free grade

## Applications

ELTEX<sup>®</sup> Superstress<sup>™</sup> CAP602 is especially suited for applications requiring outstanding 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.

- Injection Moulding 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 cap designs

Properties	Conditions	Test Methods	Values	Units
<b>Rheological</b>				
Melt Flow Rate	190°C/2.16kg	ISO 1133-1	0.8	g/10min
<b>Physical</b>				
Density ISO 17855-1	23°C	ISO 1183-1	953	kg/m <sup>3</sup>
<b>Mechanical</b>				
Tensile Modulus	23°C, 1 mm/min	ISO 527-2	1200	MPa
Tensile Strength at Yield	23°C	ISO 527-1,-2	26	MPa
Charpy Impact Strength, notched	23°C	ISO 179-1/1eA	9.0	kJ/m <sup>2</sup>
Environmental Stress Cracking Resistance (ESCR) on cap	40°C, 6 bar, 10% Igepal	INEOS Test Method	65	h
<b>Organoleptic</b>				
Organoleptic properties		INEOS Test Method	Ok	

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

Exposure to direct sunlight has to be avoided

**Data should not be used for specification work**



# ELTEX<sup>®</sup> Superstress<sup>™</sup> CAP602

## Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration.

It is advised to process the product within maximum one year after delivery.