

# Eltex® Superstress™ CAP602S2

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

## Message:

Eltex® Superstress™ CAP602S2 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 carbonated soft drinks

Use in warm regions & cases, where ESCR can be a problem with standard grades

Possibility to reach new designs with reduced cap weight

### 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.

Grade containing slip agent ensuring easy application and opening. Exposure to direct sunlight has to be avoided as the slip agent is light sensitive and its degradation can give off-taste to the beverage.

General Information			
Additive	Slip		
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Organoleptic Properties		
	Good Processability		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Purity		
	Slip		
Uses	Caps		
	Closures		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	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 <sup>2</sup>	ISO 179
Injection	Nominal Value	Unit	
Processing (Melt) Temp	< 250	°C	

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