

# Eltex® Superstress™ CAP508

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

## Message:

Eltex® Superstress™ CAP508 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 stress cracking resistance and enhanced processability. Thanks to high purity and excellent organoleptic properties it is well suited for packaging in direct contact with beverages and sensitive food.

### Typical applications

Injection Moulding and Compression Moulding of Caps & Closures for the packaging of sparkling water and carbonated soft drinks; especially in reduced weight cap designs

Injection Moulding of thin wall packaging, especially for the food industry

### Benefits and Features

Very good processability

High stress cracking resistance

Excellent quality controlled organoleptic properties

Slip agent free grade

General Information			
Features	High purity		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	Workability, good		
	Good sensory characteristics		
Uses	Packaging		
	Thin wall packaging		
	Shield		
	Food packaging		
	Shell		
RoHS Compliance	Contact manufacturer		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (40°C)	32.0	hr	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1000	MPa	ISO 527-2/1B
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2/1B
Impact	Nominal Value	Unit	Test Method

Charpy Unnotched Impact Strength (23°C)	5.5	kJ/m <sup>2</sup>	ISO 179
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#### Additional Information

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

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#### Recommended distributors for this material

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