Eltex® Superstress™ CAP508S3

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

Message:

Eltex® Superstress™ CAP508S3 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
Grade containing a medium effective Slip Agent to reduce the friction at application and opening of caps.
Note : 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	Moderate smoothness
Features	High purity High ESCR (Stress Cracking Resistance) Copolymer Workability, good Good sensory characteristics Moderate smoothness
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/cm³	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^2	ISO 179

Additional Information

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

Recommended distributors for this material

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