

# Eltex® HD5240EA-B

High Density Polyethylene Copolymer

INEOS Olefins & Polymers Europe

## Message:

Eltex® HD5240EA-B is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection of caps & closures applications requiring good environmental stress cracking resistance. Thanks to high purity and excellent organoleptic properties, this grade is particularly intended for the packaging in direct contact with beverages.

Typical applications

Caps & closures for the packaging of still mineral water, functionalized beverages and slightly carbonated or pressurized beverages

Benefits and Features

Easy processing

Good environmental stress cracking resistance

High impact strength

Low warpage

Slip agent free grade

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.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Purity		
	Low Warpage		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	13.0	hr	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1B
Tensile Stress (Yield)	25.0	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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