

Eltex® HD5211GA-B

High Density Polyethylene

INEOS Olefins & Polymers Europe

Technical Data

Product Description

Eltex® HD5211GA-B is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for the injection moulding of caps & closures for the packaging of beverages. 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, aromatized waters and juices

Benefits and Features

- Easy processing
- Good impact strength
- Low warpage
- 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.
- 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

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• INEOS Olefins & Polymers Europe		
Availability	• Europe		
Additive	• Slip		
Features	• Copolymer	• Good Processability	• Narrow Molecular Weight Distribution
	• Good Impact Resistance	• High Purity	
	• Good Organoleptic Properties	• Low Warpage	• Slip
Uses	• Caps	• Closures	
Agency Ratings	• EU Food Contact, Unspecified Rating		
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.951 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	6.00 hr	ASTM D1693
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1100 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)	3.5 kJ/m ²	ISO 179

Additional Information

The value listed as Density ASTM D1183, was tested in accordance with ASTM D1872.

The value listed as Eniro. Stress Crack Res. ASTM D1693, was tested in accordance with INEOS test methods.

Organoleptic Properties, INEOS methods: OK

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.