

Eltex® HD5130EA-B

High Density Polyethylene
INEOS Olefins & Polymers Europe

Technical Data

Product Description

Eltex® HD5130EA-B is a high-density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection and compression moulding application requiring very high 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 sparkling water and carbonated soft drinks
- Caps & closures for the packaging of medical and pharmaceutical applications

Benefits and Features

- Very good environmental stress cracking resistance
- Very 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

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• INEOS Olefins & Polymers Europe		
Availability	• Europe		
Features	• Copolymer • Good Organoleptic Properties • High ESCR (Stress Crack Resist.)	• High Purity • Low Warpage • Narrow Molecular Weight Distribution	• Ultra High Impact Resistance
Uses	• Caps	• Closures	
RoHS Compliance	• Contact Manufacturer		
Forms	• Pellets		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.4 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	20.0 hr	ASTM D1693
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1200 MPa	ISO 527-2/1B
Tensile Stress (Yield)	27.0 MPa	ISO 527-2/1B
Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	8.0 kJ/m²	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.