

Eltex® B4020N1331

High Density Polyethylene
INEOS Olefins & Polymers Europe

Technical Data

Product Description

Eltex® B4020N1331 is a high-density polyethylene copolymer particularly intended for the injection moulding and compression moulding of screw caps for the packaging of beverages. It is especially suitable for applications requiring 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

Benefits and Features

- Very good stress cracking resistance
- Excellent processing performances
- High impact strength
- 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.
- Slip agent free grade

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• INEOS Olefins & Polymers Europe		
Availability	• Europe		
Features	• Good Organoleptic Properties • Good Processability	• High ESCR (Stress Crack Resist.) • High Impact Resistance	• High Purity
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/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	16.0 hr	ASTM D1693
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	1100 MPa	ISO 527-2/1B
Tensile Stress (Yield, 23°C)	25.0 MPa	ISO 527-2/50
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0 kJ/m²	ISO 179

Additional Information

The value listed as Density, ISO 1183, was tested in accordance with ISO 1872.

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

Organoleptic Properties, INEOS Method: 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.