

Eltex® B4020N1343

High Density Polyethylene

INEOS Olefins & Polymers Europe

Technical Data

Product Description

Eltex® B4020N1343 is a high density polyethylene copolymer particularly intended for the injection molding and compression molding 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.
- 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.

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 Organoleptic Properties • Good Processability	• High ESCR (Stress Crack Resist.) • High Impact Resistance • High Purity	• Slip
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)	25.0 MPa	ISO 527-2/1B
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0 kJ/m²	ISO 179

Additional Information

Organoleptic properties, INEOS: OK

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

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.