

Eltex® B4020N1331

High Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

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 Information			
Features	High purity		
	High ESCR (Stress Cracking Resistance)		
	Impact resistance, high		
	Workability, good		
	Good sensory characteristics		
Uses	Shield		
	Shell		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	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/m ²	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

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