

Eltex® B4020N1343

High Density Polyethylene Copolymer
INEOS Olefins & Polymers Europe

Message:

Eltex® B4020N1343 is a high density polyethylene copolymer particularly intended for the injection molding and compression molding of screw caps for the packagin of beverages. It is especially suitable for applications requiring high environmental stress cracking resistance. Thanks to hgih purity and excellent organoleptic properties, this grade is particularly intended for the packaging in direct contract 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 Information			
Additive	slip agent		
Features	High purity		
	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	smoothness		
	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)	25.0	MPa	ISO 527-2/1B

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179
Additional Information			

Organoleptic properties, INEOS: OKThe value listed ad Enviro Stress Crack Res ASTM D1693, was tested in accordance with INEOS test standards.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

