

Eltex® B4020N1343

Product Technical Information

Eltex® B4020N1343 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.
- 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.

Properties		Test Methods	Values	Units
Physical				
Density		ISO 1872	952	kg/m ³
Melt Flow Rate	2.16 kg load	ISO 1133	2.2	g/10min
Mechanical				
Tensile Modulus		ISO 527 -1&2 (1B)	1100	MPa
Tensile Strength	@ Yield	ISO 527 -1&2 (1B)	25	MPa
Charpy Impact Strength, 23°C		ISO 179	6	kJ/m ²
Environmental Stress Cracking Resistance (ESCR)		INEOS	16	h
Other				
Organoleptic properties		INEOS	OK	-