

Alcudia® High density polyethylene

Chemicals

Technical data sheet



HDPE ALCUDIA® 6006B

DESCRIPTION

ALCUDIA® 6006B is white compound based on a copolymer of hexene with medium molecular weight. It is specially designed to make, by blow molding, bottles of sterilized milk. This grade contains a package of additives that includes 1.25% of TiO₂, in addition to the antioxidant necessary to reinforce the thermal stability.

Excellent behavior in extrusion and sterilization process. Its characteristics confers it high impact strength. On the other hand its good viscoelastic behavior allows an easy recovering of the mould-shape after the sterilization process and storage.

TYPICAL APPLICATIONS

Bottles of sterilized milk.

Recommended melt temperature range from 170 to 190°C. Processing conditions should be optimized for each production line.

PROPERTIES	VALUE *	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 2.16 kg)	0.6	g/10 min	ISO 1133
Melt Flow Rate (190°C, 21.6 kg)	40	g/10 min	ISO 1133
Density at 23°C	966	kg/m ³	ISO 1183
Mechanical			
Tensile Strength at Break	25	MPa	ISO 527-2
Elongation at break	700	%	ISO 527-2
Flexural modulus of elasticity	1400	MPa	ISO 178
Other			
Vicat Softening Temperature (10 N)	126	°C	ISO 306
Shore Hardness D	68	°	ISO 868
Environmental Stress Cracking Resistance (F ₅₀)	15	h	ASTM D-1693 (1)

* Typical values – Not to be considered as specification
(1) 10% Igepal, 50°C

ALCUDIA® 6006B complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ALCUDIA® 6006B should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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*This information is offered in good faith and meant only as a guide.
The transformer or user will be, in each case, responsible for the
processing conditions and the final use of the product. Freedom
under patents, copyright and registered designs cannot be assumed.*

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