

ALCUDIA® HDPE 6006-B

High Density Polyethylene
REPSOL

Message:

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 behaviour in extrusion and sterilization process. Its characteristics confers it high impact strength. On the other hand its good viscoelastic behaviour 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 optimised for each production line.

General Information			
Additive	Antioxidant		
	Titanium Dioxide (TiO ₂) (1%)		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Sterilizability		
	Hexene Comonomer		
	High Impact Resistance		
	Medium Molecular Weight		
Uses	Blow Molding Applications		
	Bottles		
Agency Ratings	EU Food Contact, Unspecified Rating		
Appearance	White		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.966	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	15.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	68		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	25.0	MPa	ISO 527-2
Tensile Strain (Break)	700	%	ISO 527-2

Flexural Modulus	1400	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 190	°C	

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