

ALCUDIA® HDPE 4810

High Density Polyethylene
REPSOL

Message:

ALCUDIA® 4810 is 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 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.

Injection of stoppers and other articles.

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

General Information	
Additive	Antioxidant
Features	Antioxidant
	Food Contact Acceptable
	Good Sterilizability
	Good Thermal Stability
	Hexene Comonomer
	High Impact Resistance
	Medium Molecular Weight
Uses	Blow Molding Applications
	Bottles
Agency Ratings	EU Food Contact, Unspecified Rating
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	25.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	21.0	MPa	ISO 527-2
Tensile Strain (Break)	720	%	ISO 527-2
Flexural Modulus	1000	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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Recommended distributors for this material

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