

# ALCUDIA® HDPE 5703-L

High Density Polyethylene  
REPSOL

Message:

ALCUDIA® 5703L is a high-density polyethylene polymer with medium molecular weight. It is specially designed for blow molding-extrusion aseptic filled bottles of milk. This grade contains stabilizers according to the end use of the item in order to reinforce the thermal stability.

TYPICAL APPLICATIONS

Aseptic filled milk bottles and other liquid dairy products

Recommended melt temperature range from 165 to 210°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Heat Stabilizer		
Features	Food Contact Acceptable		
	Heat Stabilized		
	Medium Molecular Weight		
Uses	Bottles		
Agency Ratings	EU Food Contact, Unspecified Rating		
Processing Method	Blow Molding		
	Extrusion		

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F50)	20.0	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)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	790	%	ISO 527-2
Flexural Modulus	1550	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	130	°C	ISO 306/A

Extrusion	Nominal Value	Unit
Melt Temperature	165 to 210	°C

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Recommended distributors for this material

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