

Alcudia® High density polyethylene

Chemicals

Technical data sheet



HDPE ALCUDIA® 5703L

DESCRIPTION

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.

PROPERTIES	VALUE *	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 2.16 kg)	0.30	g/10 min	ISO 1133
Melt Flow Rate (190°C, 21.6 kg)	30	g/10 min	ISO 1133
Density at 23°C	962	kg/m ³	ISO 1183
Mechanical			
Tensile Strength at Break	30	MPa	ISO 527-2
Elongation at break	790	%	ISO 527-2
Flexural modulus of elasticity	1550	MPa	ISO 178
Other			
Vicat Softening Temperature (10 N)	130	°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® 5703L 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® 5703L 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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