

Alcudia® High density polyethylene

Chemicals

Technical data sheet



HDPE ALCUDIA® TR135

DESCRIPTION

ALCUDIA® TR135 is a medium density polyethylene grade, high molecular weight hexene copolymer, especially intended for film extrusion. This material offers easy processability into thin films with excellent mechanical properties, good sealing characteristics and high stress crack resistance. It contains antioxidant additives.

TYPICAL APPLICATIONS

- Carrier bags.
- Refuse sacks.
- Waterproof sheets.

Recommended melt temperature range from 190 to 220°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 2.16kg)	0.12	g/10 min	ISO 1133
Density at 23°C	938	kg/m ³	ISO 1183
Film ⁽¹⁾			
Dart drop (F ₅₀)	120	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	20 / 580	cN	ISO 6383-2
Sheet ⁽²⁾			
Tensile stress at break (MD/TD)	33 / 35	MPa	ISO 527-3
Tensile stress at yield (MD/TD)	18 / 20	MPa	ISO 527-3
Elongation at break (MD/TD)	750 / 900	%	ISO 527-3
Other			
Vicat softening temperature (load 10 N)	115	°C	ISO 306
Melting temperature	127	°C	ISO 11357-3

(1) 20 µm thickness film, blow up ratio 3:1, frost line height 70 cm.

(2) 1.5 mm thickness sheet, cast film extrusion.

ALCUDIA® TR135 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® TR135 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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