

Alcudia® Low density polyethylene

Chemicals

Technical data sheet



LDPE ALCUDIA® PE045/A

DESCRIPTION

ALCUDIA® PE045/A is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown or cast film applications. This material offers easy processability, good balance of slip, mechanical and optical properties and excellent draw down. It contains antistatic, slip and antiblock additives.

TYPICAL APPLICATIONS

- General packaging film.
- Film for lamination with adhesives.
- Film for automated packaging.
- High clarity, medium-high slip film.

Recommended melt temperature range from 150 to 180°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190°C, 2.16kg)	2	g/10 min	ISO 1133
Density at 23°C	920	kg/m ³	ISO 1183
Film ⁽¹⁾			
Dart drop (F ₅₀)	90	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	300 / 125	cN	ISO 6383-2
Tensile stress at break (MD/TD)	30 / 20	MPa	ISO 527-3
Tensile at Yield (MD/TD)	11 / 11	MPa	ISO 527-3
Elongation at break (MD/TD)	200 / 650	%	ISO 527-3
Coefficient of friction (Dynamic)	0.12	-	ISO 8295
Gloss (45°)	60	-	ASTM D-2457
Haze	10	%	ASTM D-1003
Other			
Vicat softening temperature (load 10 N)	91	°C	ISO 306

(1) 30 µm thickness film, blow up ratio 2.25:1, frost line height 40 cm.

ALCUDIA® PE045/A 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® PE045/A 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.

Technical Service and Development:
Repsol Technology Centre
Ctra. de Extremadura A5, Km 18
28931 Móstoles, Madrid
Tel. +34 91 753 86 00
atd_poliiolefinas@repsol.com

Headquarters:
Méndez Álvaro, 44
28045 Madrid
Spain
www.chemicals.repsol.com

Customer Care:
sacrq@repsol.com