

**REPSOL
YPF**



**ALCUDIA®
LD POLYETHYLENE**

LDPE ALCUDIA® PE-045/A

DESCRIPTION

ALCUDIA® PE-045/A is a low density polyethylene grade, produced by high pressure autoclave technology, 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.

ALCUDIA® PE-045/A fulfils the food contact regulations in most countries. For further information or certificates, contact our Customer Service Offices.

APPLICATIONS

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

Recommended melt temperature range from 150 to 180°C.

Processing conditions should be optimised for each production line.

PROPERTIES	TEST METHOD	UNITS	VALUE
General			
Melt Flow Rate (190°C, 2.16kg)	ISO 1133	g/10 min	2
Density at 23°C	ISO 1183	kg/m ³	920
Vicat softening temperature (load 10 N)	ISO 306	°C	91
Film (1)			
Dart drop (F ₅₀)	ISO 7765-1	g	90
Tear resistance (Elmendorf) (MD/TD)	ISO 6383-2	kN/m	55/20
Tensile stress at break (MD/TD)	ISO 527-3	MPa	30/20
Tensile stress at yield (MD/TD)	ISO 527-3	MPa	11/11
Elongation at break (MD/TD)	ISO 527-3	%	200/650
Coefficient of friction	ISO 8295	-	0.12
Gloss (45°)	ASTM D-2457	%	60
Haze	ASTM D-1003	%	8

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

STORAGE

ALCUDIA® PE-045/A should be stored in a dry atmosphere paved, drained and not flooded area at temperatures under 60°C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and the properties of the transformed product.

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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