

Producer: REPSOL YPF / SPAIN

## LDPE ALCUDIA PE-046/A

### DESCRIPTION

ALCUDIA® PE-046/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 slip and antiblock additives.

ALCUDIA® PE-046/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, high slip film.
- Film for lamination with adhesives.
- Lamination to different substrates (paper, aluminium foil, etc), with or without adhesive.

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

PROPERTY	TEST	UNIT	VALUE
<b>General</b>			
Melt Flow Rate (190°C, 2.16kg)	ISO 1133	g/10 min	2
Density at 23°C	ISO 1183	kg/m <sup>3</sup>	921
Vicat softening temperature (load 10 N)	ISO 306	°C	90
<b>Film (1)</b>			
Dart drop (F <sub>50</sub> )	ISO 7765-1	g	90
Tear resistance (Elmendorf) (MD/TD)	ISO 6383-2	cN	350/125
Tensile stress at break (MD/TD)	ISO 527-3	MPa	25/20
Tensile stress at yield (MD/TD)	ISO 527-3	MPa	10/10
Elongation at break (MD/TD)	ISO 527-3	%	200/550
Coefficient of friction	ISO 8295	-	<0.1
Gloss (45°)	ASTM D-2457	%	55
Haze	ASTM D-1003	%	10

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

### STORAGE

ALCUDIA® PE-046/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.