

**REPSOL
YPF**



**ALCUDIA®
LD POLYETHYLENE**

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.

| 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 | 921 |
| Vicat softening temperature (load 10 N) | ISO 306 | °C | 90 |
| Film (1) | | | |
| Dart drop (F ₅₀) | 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.

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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.

Head Offices:
P.º de la Castellana, 280
28046 Madrid
Spain
www.repsolypf.com/quimica
e-mail: quimica@repsolypf.com

TS & Development:
Tel.: +34 - 91 348 86 00
Fax.: +34 - 91 530 45 17
e-mail: atdquimica@repsolypf.com
Ctra. de Extremadura, km 18
28931 Móstoles, Madrid
Spain

Customer Service in Europe:
UK, Ireland, Scandinavia: Tel.: 44 - 20 7581 0300
France, Benelux: Tel.: 33 (0) 146 965 102
Germany, Austria, Switzerland: Tel.: 49 - 69 610 93 20
Italy: Tel.: 39 - 02 40 933 92 05
Spain: Tel.: 34 - 91 348 82 54
Portugal: Tel.: 800 55 55 55 11
Other Countries: Tel.: 34 - 91 348 90 84

e-mail:
sac.uk@repsolypf.com
sac.france@repsolypf.com
sac.deutschland@repsolypf.com
sac.italy@repsolypf.com
sac.quimica@repsolypf.com
sac.portugal@repsolypf.com
sac.quimica@repsolypf.com