

**REPSOL  
YPF**



**ALCUDIA®  
LD POLYETHYLENE**

## LDPE ALCUDIA® PE-003

### DESCRIPTION

ALCUDIA® PE-003 is a low density polyethylene grade, produced by high pressure autoclave technology, for blown or cast film applications. This material offers easy processability and good balance of mechanical and optical properties. It does not contain any additives.

ALCUDIA® PE-003 fulfils the food contact regulations in most countries. For further information or certificates, contact our Customer Service Offices.

### APPLICATIONS

- General packaging film.
- Thin shrink film
- 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
<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>	920
Vicat softening temperature (load 10 N)	ISO 306	°C	91
<b>Film (1)</b>			
Dart drop (F <sub>50</sub> )	ISO 7765-1	g	90
Tear resistance (Elmendorf) (MD/TD)	ISO 6383-2	cN	300/125
Tensile stress at break (MD/TD)	ISO 527-3	MPa	29/20
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	-	>0.5
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-003 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.

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