

**REPSOL  
YPF**



**ALCUDIA®  
LD POLYETHYLENE**

# LDPE ALCUDIA® PE-033

## DESCRIPTION

ALCUDIA® PE-033 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 contains antioxidant additive.

ALCUDIA® PE-033 fulfils the food contact regulations in most countries. For further information or certificates, contact our Customer Service Offices.

## APPLICATIONS

- General packaging film.
- Heavy duty sacks.
- Shrink film with high mechanical resistance.

Recommended melt temperature range from 190 to 220°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	0.3
Density at 23°C	ISO 1183	kg/m <sup>3</sup>	921
Vicat softening temperature (load 10 N)	ISO 306	°C	93
<b>Film (1)</b>			
Dart drop (F <sub>50</sub> )	ISO 7765-1	g	750
Tear resistance (Elmendorf) (MD/TD)	ISO 6383-2	cN	600/900
Tensile stress at break (MD/TD)	ISO 527-3	MPa	20/19
Tensile stress at yield (MD/TD)	ISO 527-3	MPa	10/10
Elongation at break (MD/TD)	ISO 527-3	%	450/525
Coefficient of friction	ISO 8295	-	>0.4
Gloss (45°)	ASTM D-2457	%	50
Haze	ASTM D-1003	%	17

(1) 200 µm thickness film, blow up ratio 2.25:1, frost line height 60 cm.

## STORAGE

ALCUDIA® PE-033 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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