

# ALCUDIA® LDPE PE-033

Low Density Polyethylene

REPSOL

## Message:

ALCUDIA® PE033 is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown or cast film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains antioxidant additive.

### TYPICAL APPLICATIONS

General packaging film.

Shrink film with high mechanical resistance.

Heavy duty sacks.

Recommended melt temperature range from 190-220°C. Processing conditions should be optimised for each production line.

General Information	
Additive	Antioxidation
Features	Optical
	Antioxidation
	Workability, good
	Compliance of Food Exposure
Uses	Packaging
	Films
	cast film
	Shrinkable film
	Heavy packing bag
Agency Ratings	European food contact, not rated
Processing Method	Blow film
	cast film

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.921	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.40		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	200	µm	
Tensile Stress			ISO 527-3
MD: Yield, 200 µm, blown film	10.0	MPa	ISO 527-3
TD: Yield, 200 µm, blown film	10.0	MPa	ISO 527-3
MD: Fracture, 200 µm, blown film	20.0	MPa	ISO 527-3
TD: Fracture, 200 µm, blown film	19.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Fracture, 200 μm, blown film	450	%	ISO 527-3
TD: Fracture, 200 μm, blown film	530	%	ISO 527-3
Dart Drop Impact (200 μm, blown film)	750	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 200 μm, blown film	6.0	N	ISO 6383-2
TD: 200 μm, blown film	9.0	N	ISO 6383-2
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	93.0	°C	ISO 306/A
<b>Optical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Gloss (45 °, 200 μm, blown film)	50		ASTM D2457
Haze (200 μm, blown film)	17	%	ASTM D1003
<b>Additional Information</b>			
Data taken from 200 μm thickness film, blow up ratio 2.25:1, frost line height 60 cm.			
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Melt Temperature	190 - 220	°C	

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#### Recommended distributors for this material

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