

ALCUDIA® LDPE PE-034

Low Density Polyethylene
REPSOL

Message:

ALCUDIA® PE034/A 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 and antiblock additives.

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	Anti-caking agent		
	Antioxidation		
Features	Optical		
	Anti-caking property		
	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)	0.922	g/cm ³	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)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	200	µm	
Tensile Stress			ISO 527-3
MD: Yield, 200 µm, blown film	11.0	MPa	ISO 527-3

TD: Yield, 200 μm, blown film	11.0	MPa	ISO 527-3
MD: Fracture, 200 μm, blown film	21.0	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	550	%	ISO 527-3
TD: Fracture, 200 μm, blown film	650	%	ISO 527-3
Dart Drop Impact (200 μm, blown film)	700	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	9.5	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	94.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45 °, 200 μm, blown film)	55		ASTM D2457
Haze (200 μm, blown film)	20	%	ASTM D1003
Additional Information			
Data taken from 200 μm thickness film, blow up ratio 2.25:1, frost line height 60 cm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	

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