

ALCUDIA® LDPE PE-045

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® PE045/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, good balance of slip, mechanical and optical properties and excellent draw down. It contains antistatic, slip and antiblock additives.

TYPICAL APPLICATIONS

General packaging film.

Film for lamination with adhesives.

Film for automated packaging.

High clarity, medium-high slip film.

Recommended melt temperature range from 150 to 180°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Anti-caking agent Antistatic property slip agent		
Features	smoothness Optical Anti-caking property Antistatic property Workability, good Good stripping Definition, high Compliance of Food Exposure		
Uses	Packaging Films Laminate cast film		
Agency Ratings	European food contact, not rated		
Processing Method	Blow film cast film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.920	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method

Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.12		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Stress			ISO 527-3
MD: Yield, 30 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 30 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 30 µm, blown film	30.0	MPa	ISO 527-3
TD: Broken, 30 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 30 µm, blown film	200	%	ISO 527-3
TD: Broken, 30 µm, blown film	650	%	ISO 527-3
Dart Drop Impact (30 µm, Blown Film)	90	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 30 µm, blown film	3.0	N	ISO 6383-2
TD: 30 µm, blown film	1.3	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm, Blown Film)	60		ASTM D2457
Haze (30.0 µm, Blown Film)	10	%	ASTM D1003
Additional Information			
Data taken from 30 µm thickness film, blow up ratio 2.25:1, frost line height 40 cm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 180	°C	

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