

ALCUDIA® LDPE PE-015

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® PE015 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 does not contain any additives.

TYPICAL APPLICATIONS

General packaging film.

Medium duty sacks.

Shrink film with high mechanical resistance.

Recommended melt temperature range from 170 to 190°C. Processing conditions should be optimised for each production line.

General Information			
Features	Optical		
	Workability, good		
	Compliance of Food Exposure		
	No additive		
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 ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.90		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	10.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	24.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	22.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: Broken, 50 µm, blown film	300	%	ISO 527-3
TD: Broken, 50 µm, blown film	550	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	150	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	1.8	N	ISO 6383-2
TD: 50 µm, blown film	1.5	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	60		ASTM D2457
Haze (50.0 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
Data taken from 50 µm thickness film, blow up ratio 2.25:1, frost line height 50 cm.			
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 190	°C	

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