

ALCUDIA® LDPE 3235FG

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 3235FG is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film or cast film applications. This material offers easy processability and films characterised by easy tear, good optical properties and enhanced toughness. It contains slip (erucamide), antioxidant and high level of antiblock additives.

TYPICAL APPLICATIONS

Hygiene overwrap films

Easy tear films

Display packaging

Recommended melt temperature range from 150 to 190°C. Processing conditions should be optimised for each production line.

General Information	
Additive	Anti-caking agent Antioxidation slip agent
Features	smoothness Optical Anti-caking property Antioxidation Workability, good Good toughness Compliance of Food Exposure
Uses	Packaging Films cast film
Agency Ratings	European food contact, not rated
Processing Method	Blow film cast film

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.932	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.15		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	

Tensile Stress			ISO 527-3
MD: Broken, 40 µm, blown film	23.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	18.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	350	%	ISO 527-3
TD: Broken, 40 µm, blown film	550	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	70	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm, blown film	1.1	N	ISO 6383-2
TD: 40 µm, blown film	2.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	75		ASTM D2457
Haze (40.0 µm, Blown Film)	8.0	%	ASTM D1003
Additional Information			
Data taken from 40 µm thickness film, blow up ratio 2.5:1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	150 - 190	°C	

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