

ALCUDIA® LDPE 3235FGD

Low Density Polyethylene
REPSOL

Message:

ALCUDIA® 3235FGD is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film or cast film applications. The easy processability of this grade allows high extrusion speeds at low gauges. This material combines easy tear, enhanced toughness and good optical properties. It contains high level of slip (erucamide), antiblock and antioxidant 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	Erucamide Lubricating Additive		
	Anti-caking agent		
	Antioxidation		
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)	7.5	%	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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