ALCUDIA® LDPE 3235F

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 3235F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film or cast film applications. This material is easily processed, and films are characterised by easy tear, enhanced toughness and good optical properties. It contains antioxidant additive.
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	Antioxidation
Features	Optical 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)	> 0.70		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)	7.0	%	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	

Recommended distributors for this material

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