ALCUDIA® LDPE 2107F

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 3235F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown film applications. This material offers easy processability and good balance of mechanical properties.
TYPICAL APPLICATIONS
Fine shrink films
Carrier-bag films
Medium duty sacks
Lamination films / Food packaging
Recommended melt temperature range from 160 to 190°C. Processing conditions should be optimised for each production line.

General Information			
Features	Workability, good Compliance of Food Exposure		
Uses	Packaging Films Laminate Bags Food packaging Shrinkable film		
Agency Ratings	European food contact, not rated		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.921	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	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	20.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	24.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	300	%	ISO 527-3
TD: Broken, 40 µm, blown film	500	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	130	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2

MD: 40 µm, blown film	4.0	N	ISO 6383-2
TD: 40 µm, blown film	2.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°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)	12	%	ASTM D1003
Additional Information			
Data taken from 40 µm thickness film, blow up ratio 2.5:1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	160 - 190	°C	

Recommended distributors for this material

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