

ALCUDIA® LDPE 2221FG

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 2221FG is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains slip (erucamide), antioxidant and antiblock additives.

TYPICAL APPLICATIONS

Thin pouches

General packaging film

Recommended melt temperature range from 150 to 180°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		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
Agency Ratings	European food contact, not rated		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.922	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.1	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.10		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Stress			ISO 527-3
MD: Broken, 40 µm, blown film	26.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	20.0	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	600	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	100	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm, blown film	5.0	N	ISO 6383-2
TD: 40 µm, blown film	3.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	85		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 - 180	°C	

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