

# ALCUDIA® LDPE 2820F

Low Density Polyethylene  
REPSOL

Message:

ALCUDIA® 2820F 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 good balance of mechanical and optical properties. It contains antioxidant.

TYPICAL APPLICATIONS

Pouches with good optical properties

Automatic packaging

Lamination

Recommended melt temperature range from 160 to 220°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Antioxidation		
Features	Optical		
	Antioxidation		
	Workability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Laminate		
	cast film		
Agency Ratings	European food contact, not rated		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.928	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.50		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	250	%	ISO 527-3
TD: Broken, 40 µm, blown film	550	%	ISO 527-3

Dart Drop Impact (40 µm, Blown Film)	75	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm, blown film	1.8	N	ISO 6383-2
TD: 40 µm, blown film	2.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	103	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	70		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	160 - 220	°C	

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#### Recommended distributors for this material

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