

# ALCUDIA® LDPE 2820FG

Low Density Polyethylene  
REPSOL

## Message:

ALCUDIA® 2820FG 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 slip (erucamide), antiblock and antioxidant additives.

### 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	Erucamide Lubricating Additive Anti-caking agent Antioxidation
Features	smoothness Optical Anti-caking property 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)	< 0.10		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	

Tensile Stress			ISO 527-3
MD: Broken, 40 µm, blown film	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)	60		ASTM D2457
Haze (40.0 µm, Blown Film)	11	%	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

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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