

# ALCUDIA® LDPE 2212FG

Low Density Polyethylene  
REPSOL

## Message:

ALCUDIA® 2212FG 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 and optical properties. It contains slip (erucamide), antioxidant and antiblock additives.

### TYPICAL APPLICATIONS

Carrier-bag films

Pouches refuse sacks

General packaging film

Recommended melt temperature range from 160 to 190°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 <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.15		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	23.0	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)	140	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)	85		ASTM D2457
Haze (40.0 µm, Blown Film)	8.0	%	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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### 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

