

**REPSOL  
YPF**



**ALCUDIA®  
LD POLYETHYLENE**

# LDPE ALCUDIA® 2221FG

## DESCRIPTION

ALCUDIA® 2221FG is a low density polyethylene grade, produced by high pressure autoclave technology, 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.

ALCUDIA® 2221FG fulfils the food contact regulations in most countries. For further information or certificates, contact our Customer Service Offices.

## APPLICATIONS

- Thin pouches
- General packaging film

Recommended melt temperature range from 150 to 180°C.  
Processing conditions should be optimised for each production line.

PROPERTIES	TEST METHOD	UNITS	VALUE
<b>General</b>			
Melt Flow Rate (190°C, 2.16kg)	ISO 1133	g/10 min	2.1
Density at 23°C	ISO 1183	kg/m <sup>3</sup>	922
Vicat softening temperature (load 10 N)	ISO 306	°C	95
<b>Film (1)</b>			
Dart drop (F <sub>50</sub> )	ISO 7765-1	g	100
Tear resistance (Elmendorf) (MD/TD)	ISO 6383-2	cN	500/300
Tensile stress at break (MD/TD)	ISO 527-3	MPa	26/20
Elongation at break (MD/TD)	ISO 527-3	%	350/600
Coefficient of friction ( Dynamic)	ISO 8295	-	0.1
Gloss (45°)	ASTM D-2457	%	85
Haze	ASTM D-1003	%	7
Puncture Resistance, force	ASTM D-5748	N	50
Puncture Resistance, energy	ASTM D-5748	J	1.3

(1) 40 µm thickness film, blow up ratio 2.5:1.

## STORAGE

ALCUDIA® 2221FG should be stored in a dry atmosphere paved, drained and not flooded area at temperatures under 60°C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and the properties of the transformed product.

December 2004

This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

Head Offices:  
P.º de la Castellana, 280  
28046 Madrid  
Spain  
[www.repsolypf.com/quimica](http://www.repsolypf.com/quimica)  
e-mail: [quimica@repsolypf.com](mailto:quimica@repsolypf.com)

TS & Development:  
Tel.: +34 - 91 348 86 00  
Fax.: +34 - 91 530 45 17  
e-mail: [atdquimica@repsolypf.com](mailto:atdquimica@repsolypf.com)  
Ctra. de Extremadura, km 18  
28931 Móstoles, Madrid  
Spain

Customer Service in Europe:  
UK, Ireland, Scandinavia: Tel.: 44 - 20 7581 0300  
France, Benelux: Tel.: 33 (0) 146 965 102  
Germany, Austria, Switzerland: Tel.: 49 - 69 610 93 20  
Italy: Tel.: 39 - 02 40 933 92 05  
Spain: Tel.: 34 - 91 348 82 54  
Portugal: Tel.: 800 55 55 55 11  
Other Countries: Tel.: 34 - 91 348 90 84

e-mail:  
[sac.uk@repsolypf.com](mailto:sac.uk@repsolypf.com)  
[sac.france@repsolypf.com](mailto:sac.france@repsolypf.com)  
[sac.deutschland@repsolypf.com](mailto:sac.deutschland@repsolypf.com)  
[sac.italy@repsolypf.com](mailto:sac.italy@repsolypf.com)  
[sac.quimica@repsolypf.com](mailto:sac.quimica@repsolypf.com)  
[sac.portugal@repsolypf.com](mailto:sac.portugal@repsolypf.com)  
[sac.quimica@repsolypf.com](mailto:sac.quimica@repsolypf.com)