

**REPSOL
YPF**



**ALCUDIA®
LD POLYETHYLENE**

LDPE ALCUDIA® 2221F

DESCRIPTION

ALCUDIA® 2221F 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 antioxidant additives.

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

APPLICATIONS

- Thin pouches
- General packaging film
- Thin shrink film
- Bubble film and foam

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

PROPERTIES	TEST METHOD	UNITS	VALUE
General			
Melt Flow Rate (190°C, 2.16kg)	ISO 1133	g/10 min	2.1
Density at 23°C	ISO 1183	kg/m ³	922
Vicat softening temperature (load 10 N)	ISO 306	°C	95
Film (1)			
Dart drop (F ₅₀)	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	-	0.9
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® 2221F 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.

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