Alcudia® Low density polyethylene

Chemicals Technical data sheet

REPSOL

LDPE ALCUDIA® 2321FS

DESCRIPTION

ALCUDIA® 2321FS is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains slip (erucamide), antioxidant, antiblock and antistatic additives.

TYPICAL APPLICATIONS

- High-quality packaging films
- Packaging of foods, paper and textiles

The film can be used either in lay-flat form or converted for applications where low friction is required.

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 2.16kg)	2.1	g/10 min	ISO 1133
Density at 23°C	923	kg/m^3	ISO 1183
Film (1)			
Dart drop (F_{50})	100	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	500 / 300	cN	ISO 6383-2
Tensile stress at break (MD/TD)	26 / 20	MPa	ISO 527-3
Elongation at break (MD/TD)	350 / 600	%	ISO 527-3
Coefficient of friction (Dynamic)	0.1	-	ISO 8295
Gloss (45º)	85	-	ASTM D-2457
Haze	8	%	ASTM D-1003
Puncture resistance	50	N	ASTM D 5748
Puncture resistance, energy	1.3	J	ASTM D 5748
Other			
Vicat softening temperature (load 10 N)	111	ºC	ISO 306

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

ALCUDIA® 2321FS complies with the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ALCUDIA® 2321FS should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60ºC and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the properties of the transformed product.

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