Alcudia® Low density polyethylene

Chemicals Technical data sheet

REPSOL

LDPE ALCUDIA® PE063/A

DESCRIPTION

ALCUDIA® PE063/A is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown or cast film applications. This material offers easy processability into thin films with good balance of slip, mechanical and optical properties. It contains slip and antiblock additives.

TYPICAL APPLICATIONS

- Film for automated packaging.
- High slip thin film.

Recommended melt temperature range from 140 to 160ºC. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 2.16kg)	4	g/10 min	ISO 1133
Density at 23°C	920	kg/m^3	ISO 1183
Film (1)			
Dart drop (F_{50})	70	g	ISO 7765-1
Tear resistance (Elmendorf) (MD/TD)	150 / 60	cN	ISO 6383-2
Tensile stress at break (MD/TD)	23 / 20	MPa	ISO 527-3
Tensile stress at yield (MD/TD)	10 / 10	MPa	ISO 527-3
Elongation at break (MD/TD)	200 / 600	%	ISO 527-3
Coefficient of friction (Dynamic)	0.10	-	ISO 8295
Gloss (45º)	60	-	ASTM D-2457
Haze	8	%	ASTM D-1003
Other			
Vicat softening temperature (load 10 N)	88	ºC	ISO 306

(1) 30 µm thickness film, blow up ratio 2.25:1, frost line height 40 cm.

ALCUDIA® PE063/A 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® PE063/A 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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