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Alcudia® Low density polyethylene

Chemicals Technical data sheet

REPSOL

LDPE ALCUDIA® 1970C

DESCRIPTION

ALCUDIA® 1970C is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for extrusion coating. Very high drawdown speeds are achieved throughout the extrusion temperature range, and thin coatings are possible at low temperatures. The molecular structure of the polymer produces an excellent clear coating. It has good heat sealability and moisture barrier properties. Its melt characteristics guarantee good adhesion and low neck-in. There are no smoke or odour problems, evem at high temperatures. Contains no additives.

TYPICAL APPLICATIONS

- Extrusion coating.
- Coextruded thin film.
- Injection moulding.

The excellent draw down properties of ALCUDIA® 1970C allow high-speed coatings, up to 850 m/min and 5 g/m^2 at a maximum extrusion temperature of 330ºC.

This material has a very low neck-in throughout a wide range of extrusion conditions.

Recommended melt temperature range for extrusion coating from 275 to 330ºC.

Temperature range for coextrusion depending on the processed polymers.

Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt Flow Rate (190ºC, 2.16kg)	7.5	g/10 min	ISO 1133
Density at 23°C	920	kg/m^3	ISO 1183
Extrusion			
Maximum Coating Speed	850	m/min	
Minimum Coating Weight	5	g/m^2	
Total Neck-in	68	mm	
Other			
Vicat softening temperature (load 10 N)	89	ºC	ISO 306

ALCUDIA® 1970C 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® 1970C 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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