

# ALCUDIA® LDPE 1970C

Low Density Polyethylene

REPSOL

## Message:

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, even 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<sup>2</sup> at a maximum extrusion temperature of 330°C.

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 330°C.

Temperature range for coextrusion depending on the processed polymers.

Processing conditions should be optimised for each production line.

General Information			
Features	Moisture proof		
	Good stripping		
	Good heat sealability		
	Good adhesion		
	Low shrinkage		
	Compliance of Food Exposure		
	No additive		
Uses	Coating application		
Agency Ratings	European food contact, not rated		
Processing Method	Film extrusion		
	Co-extrusion molding		
	Extrusion coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.920	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ISO 306/A
Extrusion	Nominal Value	Unit	
Melt Temperature	275 - 330	°C	
Extrusion instructions			
Maximum Coating Speed: 850 m/minMinimum Coating Weight: 5 g/m <sup>2</sup> Total Neck-in: 68 mm			

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