ALCUDIA® LDPE 2805F

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 2805F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown film applications. This material offers easy processability and an excellent balance of mechanical and optical properties. It contains antioxidant.
TYPICAL APPLICATIONS
Shrink films / hoods
Coextruded films with good optical properties and excellent mechanical properties
Recommended melt temperature range from 170 to 210°C. Processing conditions should be optimised for each production line.

General Information	
Additive	Antioxidation
Features	Optical Antioxidation Workability, good Compliance of Food Exposure
Uses	Films Shrinkable film
Agency Ratings	European food contact, not rated
Processing Method	Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.928	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.55	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.40		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	
Tensile Stress			ISO 527-3
MD: Broken, 40 µm, blown film	25.0	MPa	ISO 527-3
TD: Broken, 40 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	300	%	ISO 527-3
TD: Broken, 40 µm, blown film	600	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	90	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2

MD: 40 µm, blown film	2.0	N	ISO 6383-2
TD: 40 µm, blown film	2.2	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	60		ASTM D2457
Haze (40.0 µm, Blown Film)	8.0	%	ASTM D1003
Additional Information			
Data taken from 40 µm thickness film, blow up ratio 2.5:1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 210	°C	

Recommended distributors for this material

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