

ALCUDIA® LDPE 2605F

Low Density Polyethylene
REPSOL

Message:

ALCUDIA® 2605F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains antioxidant additives.

TYPICAL APPLICATIONS

- Shrink films / hoods
- Coextruded films where good optical properties and heat resistance is required.
- Recommended melt temperature range from 170 to 200°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Antioxidation		
Features	Optical		
	Antioxidation		
	Heat resistance, medium		
	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)	0.926	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.50		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	350	%	ISO 527-3
TD: Broken, 40 µm, blown film	650	%	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	2.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 40.0 µm, Blown Film)	75		ASTM D2457
Haze (40.0 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
Data taken from 40 µm thickness film, blow up ratio 2.5:1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 200	°C	

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