ALCUDIA® LDPE 2008-F

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 2008F is a low density polyethylene grade, produced by high pressure tubular technology, suitable for blown or cast film applications. This material offers easy processability and good balance of mechanical and optical properties. It does not contain any additives.
TYPICAL APPLICATIONS
General packaging film
Shrink film with high mechanical resistance.
Medium duty sacks.
Recommended melt temperature range from 170 to 200°C. Processing conditions should be optimised for each production line.

General Information	
Features	Optical Workability, good Compliance of Food Exposure No additive
Uses	Packaging Films
Agency Ratings	European food contact, not rated
Processing Method	Blow film cast film

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.922	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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	50	µm	
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	9.00	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	9.00	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	25.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	250	%	ISO 527-3
TD: Broken, 50 µm, blown film	550	%	ISO 527-3
Dart Drop Impact (50 µm, Blown Film)	220	g	ISO 7765-1

Elmendorf Tear Strength			ISO 6383-2
MD: 50 µm, blown film	2.5	N	ISO 6383-2
TD: 50 µm, blown film	1.6	N	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	92.0	°C	ISO 306/A
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	50		ASTM D2457
Haze (50.0 µm, Blown Film)	13	%	ASTM D1003
Additional Information			
Data taken from 50 µm thickness film, blow up ratio 2.25:1, frost line height 50 cm.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 - 200	°C	

Recommended distributors for this material

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WECHAT