

ALCUDIA® LDPE 2203F

Low Density Polyethylene
REPSOL

Message:

ALCUDIA® 2203F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for blown or cast film applications. This material offers easy processability and good balance of mechanical properties.

TYPICAL APPLICATIONS

General packaging film.
Heavy duty bags.
-Shrink film with high mechanical resistance.
-Construction and agricultural films

Recommended melt temperature range from 170 to 220°C. Processing conditions should be optimised for each production line.

General Information			
Features	Workability, good		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Architectural application field		
	Agricultural application		
	Shrinkable film		
	Heavy packing bag		
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/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.60		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	23.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 40 µm, blown film	400	%	ISO 527-3
TD: Broken, 40 µm, blown film	600	%	ISO 527-3

Dart Drop Impact (40 µm, Blown Film)	450	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD: 40 µm, blown film	5.0	N	ISO 6383-2
TD: 40 µm, blown film	6.0	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A

Additional Information

Data taken from 40 µm thickness film, blow up ratio 2.5:1.

Extrusion	Nominal Value	Unit
Melt Temperature	170 - 220	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

