ALCUDIA® LDPE 2221F

Low Density Polyethylene

REPSOL

Message:

ALCUDIA® 2221F is a low density polyethylene grade, produced by high pressure autoclave technology, suitable for thin blown film applications. This material offers easy processability and good balance of mechanical and optical properties. It contains antioxidant additives.
TYPICAL APPLICATIONS
Thin shrink film
Thin pouches
General packaging film
Bubble film
Foams
Recommended melt temperature range from 150 to 180°C. Processing conditions should be optimised for each production line.

General Information			
Additive	Antioxidation		
Features	Optical Antioxidation Workability, good Compliance of Food Exposure		
Uses	Packaging Films Foam		
Agency Ratings	European food contact, not rated		
Processing Method	Blow 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)	2.1	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	0.90		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	40	µm	
Tensile Stress			ISO 527-3
MD: Broken, 40 µm, blown film	26.0	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	600	%	ISO 527-3
Dart Drop Impact (40 µm, Blown Film)	100	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	3.0	N	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	95.0	°C	ISO 306/A
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 40.0 µm, Blown Film)	85		ASTM D2457
Haze (40.0 µm, Blown Film)	7.0	%	ASTM D1003
Additional Information			
Data taken from 40 µm thickness film, blow up ratio 2.5:1.			
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	150 - 180	°C	

Recommended distributors for this material

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