

Lutene® FB0300

Low Density Polyethylene

LG Chem Ltd.

Message:

LUTENE FB0300 is mainly intended for the extrusion of blown film with high mechanical property for the manufacture of heavy duty sacks and pallet shrink films.

LUTENE FB0300 have the excellent mechanical properties and high stress cracking resistance make suitable for heavy duty bags and particularly bottom sealed bags. (LUTENE FB0300 contains no slip agent.)

Applications: Packing of heavy products, Shrink hoods, Pallet shrink covers, all types of industrial packing

General Information			
Features	High ESCR (Stress Cracking Resistance)		
Uses	Packaging		
	Films		
	Bags		
	Industrial application		
	Shrinkable film		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	> 500	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tear Resistance			ASTM D1922
MD	36.3	MPa	ASTM D1922
TD	37.3	MPa	ASTM D1922
Nitrogen Permeability	3500	cm ³ /m ² /24 hr	Internal method
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Tensile Strength			ASTM D882
MD: Fracture	23.5	MPa	ASTM D882
TD: Fracture	22.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	550	%	ASTM D882
TD: Fracture	650	%	ASTM D882
Dart Drop Impact	300	g	ASTM D1709
Oxygen Permeability	2000	cm ³ /m ² /24 hr	Internal method
Water Vapor Transmission	10	g/m ² /24 hr	Internal method
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	95.0	°C	ASTM D1525
Melting Temperature	110	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	95		ASTM D2457
Haze	17	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 220	°C	
Extrusion instructions			
Blow up ratio: 1.5 to 2			

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