

Lutene® LB5000

Low Density Polyethylene

LG Chem Ltd.

Message:

LUTENE LB5000 is mainly intended for extrusion coating and can be processed uniform thickness and width. LUTENE LB5000 is also noted for the excellent heat stability and has good silicone coating processability. LB5000 has a good adhesion strength with paper and paper board and excellent neck-in characteristic. LUTENE LB5000 contains no additives.

Agency Ratings:

USA FDA 21CFR 117.1520(c)

Japaness Ministry of Health and Welfare Notification No. 20 Standard

Applications:

Flexible package (Tie layer or sealant layer of laminating film)

Paper and paperboard coating (Release paper, paper cup, kraft paper)

General Information			
Features	Additive Free		
	Good Adhesion		
	Good Processability		
	Low Neck-In		
Uses	Coating Applications		
	Laminates		
	Paper Coatings		
	Pouches - Flexible Packaging		
Processing Method	Extrusion Coating		
	Laminating		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	43		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, Compression Molded	8.83	MPa	
Break, Compression Molded	11.8	MPa	
Tensile Elongation (Break, Compression Molded)	550	%	ASTM D638
Flexural Modulus (Compression Molded)	196	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature ¹	110	°C	

Water Vapor Transmission	20	g/m ² /24 hr	Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	83.0	°C	ASTM D1525
Melting Temperature	107	°C	DSC
Additional Information	Nominal Value	Unit	Test Method
Adhesion to Aluminum ²	392.3	N/m	Internal Method
Minimum Coating Weight ³	13	g/m ²	Internal Method
Neck-in ⁴	20.0	mm	Internal Method

NOTE

1. Kraft paper, 40 g/m²
2. Coating weight: 40 g/m²(actually aluminum)
3. Coating speed: 250 m/min
4. Coating speed: 200 m/min

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