

LOFEX® A4110

Polyethylene Terephthalate

Lotte Chemical Corporation

Message:

LOFEX ® A4110 Polyester film is optically clear and one side corona treated with excellent properties by tensile strength , proper elongation and the thermal contraction rate. It can use by release film, laminating film and tape because it has excellent run, easy treatment by suitable product. Also, it is a product that thickness control is possible according to customer needs.

General Information		
Features	Good Strength	
	High Clarity	
Uses	Film	
	Industrial Applications	
	Laminates	
	Tape	
RoHS Compliance	RoHS Compliant	
Forms	Film	
Physical	Nominal Value	Unit
Surface Tension		
50.0 µm	52	mN/m
125.0 µm	52	mN/m
F5		ASTM D882
MD : 50.0 µm	113	MPa
MD : 75.0 µm	113	MPa
MD : 100.0 µm	113	MPa
MD : 125.0 µm	113	MPa
TD : 50.0 µm	113	MPa
TD : 75.0 µm	113	MPa
TD : 100.0 µm	113	MPa
TD : 125.0 µm	113	MPa
Heat Shrinkage		Internal Method
MD, 30 min : 125.0 µm	1.0	%
MD, 30 min : 150°C, 50.0 µm	1.0	%
MD, 30 min : 150°C, 75.0 µm	1.0	%
MD, 30 min : 150°C, 100.0 µm	1.0	%
TD, 30 min : 150°C, 50.0 µm	0.50	%
TD, 30 min : 150°C, 75.0 µm	0.50	%
TD, 30 min : 150°C, 100.0 µm	0.50	%
TD, 30 min : 150°C, 125.0 µm	0.50	%

Surface Treatment	Inside (Corona)		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic)	0.30		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD : Yield,50 μm	196	MPa	
MD : Yield,75 μm	196	MPa	
MD : Yield,100 μm	196	MPa	
MD : Yield,130 μm	186	MPa	
TD : Yield,50 μm	235	MPa	
TD : Yield,75 μm	216	MPa	
TD : Yield,100 μm	216	MPa	
TD : Yield,130 μm	216	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 μm	170	%	
MD : Break, 75 μm	170	%	
MD : Break, 100 μm	170	%	
MD : Break, 130 μm	170	%	
TD : Break, 50 μm	120	%	
TD : Break, 75 μm	120	%	
TD : Break, 100 μm	120	%	
TD : Break, 130 μm	120	%	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
60°, 50.0 μm	160		
60°, 75.0 μm	160		
60°, 100 μm	160		
60°, 125 μm	160		
Transmittance			ASTM D1003
50.0 μm	88.0	%	
75.0 μm	88.0	%	
100 μm	88.0	%	
125 μm	88.0	%	
Haze			ASTM D1003
50.0 μm	2.0	%	
75.0 μm	2.5	%	
100 μm	3.4	%	
125 μm	3.5	%	

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