

LOFEX® A3111

Polyethylene Terephthalate

Lotte Chemical Corporation

Message:

LOFEX ® A3111 Polyester film is optically clear and corona treated on both sides 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.

General Information			
Features	Good Strength		
	High Clarity		
Uses	Film		
	Industrial Applications		
	Laminates		
	Tape		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	
Surface Tension			
50.0 µm	52	mN/m	
75.0 µm	52	mN/m	
100.0 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	
TD : 50.0 µm	113	MPa	
TD : 75.0 µm	113	MPa	
TD : 100.0 µm	113	MPa	
Heat Shrinkage			Internal Method
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	%	
Surface Treatment	Both sides (Corona)		
Mechanical	Nominal Value	Unit	Test Method

Coefficient of Friction		ASTM D1894	
vs. Itself - Dynamic	0.29		
vs. Itself - Static	0.32		
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	
TD : Yield,50 μm	235	MPa	
TD : Yield,75 μm	235	MPa	
TD : Yield,100 μm	216	MPa	
Tensile Elongation		ASTM D882	
MD : Break, 50 μm	170	%	
MD : Break, 75 μm	170	%	
MD : Break, 100 μm	170	%	
TD : Break, 50 μm	120	%	
TD : Break, 75 μm	120	%	
TD : Break, 100 μm	120	%	
Optical	Nominal Value	Unit	Test Method
Gardner Gloss		ASTM D523	
60°, 50.0 μm	175		
60°, 75.0 μm	175		
60°, 100 μm	175		
Transmittance		ASTM D1003	
50.0 μm	89.0	%	
75.0 μm	89.0	%	
100 μm	89.0	%	
Haze		ASTM D1003	
50.0 μm	1.3	%	
75.0 μm	1.5	%	
100 μm	1.8	%	

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