LOFEX® A31AA

Polyethylene Terephthalate

Lotte Chemical Corporation

Message:

LOFEX ® A31AA is Polyester film is optically clear and both sides acryl treated with enhanced adhesion to inks and coatings. So, it can use by graphic, membrane switch, label, circuit board. It has excellent properties by tensile strength, proper elongation and the thermal contraction rate. 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 Membrane Touch Switches Printed Circuit Boards		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Film		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.30		
vs. Itself - Static	0.35		
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D882
MD : Yield,50 µm	196	MPa	
MD : Yield,100 µm	196	MPa	
MD : Yield,130 µm	186	MPa	
MD : Yield,190 µm	177	MPa	
TD : Yield,50 µm	216	MPa	
TD : Yield,100 µm	216	MPa	
TD : Yield,130 µm	216	MPa	
TD : Yield,190 µm	216	MPa	
Tensile Elongation			ASTM D882
MD : Break, 50 µm	160	%	
MD : Break, 100 µm	170	%	
MD : Break, 130 µm	170	%	
MD : Break, 190 µm	170	%	
TD : Break, 50 µm	110	%	
TD : Break, 100 µm	120	%	

TD : Break, 130 µm	120	%	
TD : Break, 190 µm	120	%	
F5			ASTM D882
MD : 50.0 µm	113	MPa	
MD : 100.0 µm	113	MPa	
MD : 125.0 µm	113	MPa	
MD : 188.0 µm	113	MPa	
TD : 50.0 µm	113	MPa	
TD : 100.0 µm	113	MPa	
TD : 125.0 µm	113	MPa	
TD : 188.0 µm	113	MPa	
Heat Shrinkage			Internal Method
MD, 30 min : 150°C, 50.0 µm	1.0	%	
MD, 30 min : 150°C, 100.0 µm	1.0	%	
MD, 30 min : 150°C, 125.0 µm	1.0	%	
MD, 30 min : 150°C, 188.0 µm	1.0	%	
TD, 30 min : 150°C, 50.0 µm	0.50	%	
TD, 30 min : 150°C, 100.0 µm	0.50	%	
TD, 30 min : 150°C, 125.0 µm	0.50	%	
TD, 30 min : 150°C, 188.0 µm	0.50	%	
Surface Treatment	Both sides (Acryl)		

Optical	Nominal Value	Unit	Test Method
Gardner Gloss			ASTM D523
60°, 50.0 µm	170		
60°, 100 µm	170		
60°, 125 µm	170		
60°, 188 µm	170		
Transmittance			ASTM D1003
50.0 µm	89.0	%	
100 µm	89.0	%	
125 µm	89.0	%	
188 µm	89.0	%	
Haze			ASTM D1003
50.0 µm	1.3	%	
100 µm	2.1	%	
125 µm	2.4	%	
188 µm	2.7	%	

Recommended distributors for this material

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