

# PRODUCT SPECIFICATIONS

## 1. SCOPE

This BOPET film for capacitors applies to DC capacitor.

## 2. STORAGE

This film, under unpacked condition, should be stored in clean and dry room with temperature of 10~35°C and RH≤80%. And it must be away heating source and not subject to direct sunlight. The storage period of product is usually two years from the date of manufacture.

## 3. PRODUCT PROPERTIES (PHYSICAL, MECHANICAL AND ELECTRICAL)

### THICKNESS BY WEIGHT METHOD

Thickness μm	2.7~3.9	4.0~5.9	6.0~9.9	10.0~12.0
Tolerance μm	±0.1	±0.1	±0.3	±0.4
Range μm	≤0.1	≤0.1	≤0.2	≤0.2

No.	Items		Unit	Targeted value		
1	Thickness		μm	2.7~3.9	4.0~5.9	≥6.0
	Tensile strength	MD	N/mm <sup>2</sup>	≥200	≥220	≥220
		TD		≥240	≥240	≥240
2	Elongation at break	MD	%	≥70		
		TD		≥70		
3	Elastic modulus	MD	N/mm <sup>2</sup>	≥3500		
		TD		≥3500		
4	Thermal shrinkage	MD	%	≤2.5		
		TD		≤1.5		
5	Roughness Ra		μm	0.080 ±0.020	0.095 ±0.020	0.095 ±0.020
6	Electrical strength (DC)	Average	V/μm	≥400		
		Min		≥350		
7	Friction coefficient (static /dynamic)			≤0.70		
8	Volume resistivity		Ω·m	≥1.0×10 <sup>15</sup>		
9	Relative permittivity(1KHz)			3.2±0.3		
10	Dielectric dissipation factor (1kHz,25°C)			≤6.0×10 <sup>-3</sup>		
11	Weak point		p/ m <sup>2</sup>	≤1	≤0.6	≤0.6
Remark: The thermal shrinkage can be adjusted but it is unfavorable for the other properties.						