

UmaPET SI

Polyethylene Terephthalate
Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET SI is transparent film with anti-static treatment on one side.
Antistatic surface ensures cleanness and excellent handling characteristics.

APPLICATIONS

In flexible packaging as substrate in outer surface of laminate which helps to smoothly carry out the operations like pouch-filling.
Industrial applications like Packaging of electronic equipments and its parts, integrated circuit boards, printed circuit boards, communication equipments etc.

General Information			
Additive	Antistatic		
Features	Antistatic		
Uses	Electrical/Electronic Applications		
	Film		
	Industrial Applications		
	Packaging		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0100 mm	2.5	%	
Flow : 150°C, 30 min, 0.0120 mm	2.5	%	
Flow : 150°C, 30 min, 0.0150 mm	2.5	%	
Flow : 150°C, 30 min, 0.0230 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0100 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0150 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0230 mm	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic ¹	0.35		
vs. Itself - Dynamic ²	0.35		
vs. Itself - Dynamic ³	0.35		
vs. Itself - Dynamic ⁴	0.35		
vs. Itself - Static ⁵	0.40		
vs. Itself - Static ⁶	0.40		
vs. Itself - Static ⁷	0.40		
vs. Itself - Static ⁸	0.40		

Films	Nominal Value	Unit	Test Method
	10		
	12		
	15		
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	10, 12, 15, 23 µm		
Tensile Strength			ASTM D882
MD : Break, 10 µm	206	MPa	
MD : Break, 12 µm	206	MPa	
MD : Break, 15 µm	186	MPa	
MD : Break, 23 µm	186	MPa	
TD : Break, 10 µm	216	MPa	
TD : Break, 12 µm	216	MPa	
TD : Break, 15 µm	206	MPa	
TD : Break, 23 µm	206	MPa	
Tensile Elongation			ASTM D882
MD : Break, 10 µm	100	%	
MD : Break, 12 µm	100	%	
MD : Break, 15 µm	100	%	
MD : Break, 23 µm	100	%	
TD : Break, 10 µm	90	%	
TD : Break, 12 µm	90	%	
TD : Break, 15 µm	90	%	
TD : Break, 23 µm	90	%	
Yield			Internal Method
10.0 µm	71.4	m ² /kg	
12.0 µm	59.5	m ² /kg	
15.0 µm	47.6	m ² /kg	
23.0 µm	31.0	m ² /kg	
Ash Pick Up Test			Internal Method
10.0 µm	Pass		
12.0 µm	Pass		
15.0 µm	Pass		
23.0 µm	Pass		
Surface Static Charge ⁹			Internal Method

10.0 μm	Nil		
12.0 μm	Nil		
15.0 μm	Nil		
23.0 μm	Nil		
Wetting Tension - Plain side		ASTM D2578	
10.0 μm	44	dyne/cm	
12.0 μm	44	dyne/cm	
15.0 μm	44	dyne/cm	
23.0 μm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Haze		ASTM D1003	
10.0 μm	3.5	%	
12.0 μm	3.5	%	
15.0 μm	3.5	%	
23.0 μm	4.5	%	
NOTE			
1.	12 μm		
2.	10 μm		
3.	15 μm		
4.	23 μm		
5.	10 μm		
6.	12 μm		
7.	15 μm		
8.	23 μm		
9.	Hand held static locator		

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