

UmaPET AO/AI

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

Key Features

UmaPET AO/AI is transparent film with one-side Chemical coated.

The film possesses good thermal, mechanical, optical and surface properties along with excellent transparency and dimensional stability.

Application

This film is widely used for high quality, Printing and Lamination applications.

The film shows enhanced adhesion to wide range of inks, adhesives and other primer/coatings.

This film meets customer's stringent requirements of high ink adhesion and superior bond strength in laminates.

General Information			
Features	Bondability		
	Excellent Printability		
	Good Adhesion		
	Good Dimensional Stability		
	Good Surface Finish		
	High Clarity		
	Opticals		
Uses	Coating Applications		
	Film		
	Laminates		
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	0.40		
vs. Itself - Dynamic ²	0.40		
vs. Itself - Dynamic ³	0.40		

vs. Itself - Dynamic ⁴	0.38		
vs. Itself - Static ⁵	0.48		
vs. Itself - Static ⁶	0.48		
vs. Itself - Static ⁷	0.48		
vs. Itself - Static ⁸	0.46		
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	
Wetting Tension			ASTM D2578

Coated side : 10.0 μm	40	dyne/cm
Coated side : 12.0 μm	40	dyne/cm
Coated side : 15.0 μm	40	dyne/cm
Coated side : 23.0 μm	40	dyne/cm
Plain side : 10.0 μm	44	dyne/cm
Plain side : 12.0 μm	44	dyne/cm
Plain side : 15.0 μm	44	dyne/cm
Plain side : 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	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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