

UmaPET WHLO

Polyethylene Terephthalate
Ester Industries Ltd.

Message:

KEY FEATURES
UmaPET WHLO is one side chemically primed white opaque film. It has high opacity and high whiteness.
Chemically coated surface provides enhanced adhesion to inks and coatings. Shows excellent flatness, good dimensional stability at elevated temperatures and exhibits excellent processability.

APPLICATIONS
Self adhesive label face stocks, lidding in high end applications, promotional calendars, Tickets for multiple uses, Prepaid cards, security and access cards, ink jet printing film, Photographic printing, high quality replacement for paper as a backing in blister packs, stationary and other industrial and packaging applications.

General Information			
Features	Good Adhesion		
	Good Dimensional Stability		
	Good Processability		
Uses	Film		
	Labels		
	Stationary Supplies		
Appearance	Opaque		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0300 mm	2.5	%	
Flow : 150°C, 30 min, 0.0360 mm	2.5	%	
Flow : 150°C, 30 min, 0.0500 mm	2.0	%	
Across Flow : 150°C, 30 min, 0.0300 mm	0.60	%	
Across Flow : 150°C, 30 min, 0.0360 mm	0.60	%	
Across Flow : 150°C, 30 min, 0.0500 mm	0.60	%	
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 - Static ⁴	0.50		
vs. Itself - Static ⁵	0.50		
vs. Itself - Static ⁶	0.50		
Films	Nominal Value	Unit	Test Method

30

36

Film Thickness - Tested	50	μm	
Film Thickness - Recommended / Available	30, 36, 50 μm		
Tensile Strength			ASTM D882
MD : Break, 30 μm	167	MPa	
MD : Break, 36 μm	157	MPa	
MD : Break, 50 μm	157	MPa	
TD : Break, 30 μm	177	MPa	
TD : Break, 36 μm	167	MPa	
TD : Break, 50 μm	167	MPa	
Tensile Elongation			ASTM D882
MD : Break, 30 μm	120	%	
MD : Break, 36 μm	120	%	
MD : Break, 50 μm	120	%	
TD : Break, 30 μm	80	%	
TD : Break, 36 μm	80	%	
TD : Break, 50 μm	80	%	
Yield			Internal Method
30.0 μm	23.8	m ² /kg	
36.0 μm	19.8	m ² /kg	
50.0 μm	14.1	m ² /kg	
Wetting Tension			ASTM D2578
Coated side : 30.0 μm	48	dyne/cm	
Coated side : 36.0 μm	48	dyne/cm	
Coated side : 50.0 μm	48	dyne/cm	
Plain side : 30.0 μm	42	dyne/cm	
Plain side : 36.0 μm	42	dyne/cm	
Plain side : 50.0 μm	42	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Opacity			Internal Method
-- ⁷	88	%	
-- ⁸	90	%	
-- ⁹	90	%	
Haze			ASTM D1003
30.0 μm	98	%	
36.0 μm	98	%	

50.0 μm	98	%
NOTE		
1.	50 μm	
2.	36 μm	
3.	30 μm	
4.	30 μm	
5.	36 μm	
6.	50 μm	
7.	30 μm	
8.	50 μm	
9.	36 μm	

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