

UmaPET CO/CI

Polyethylene Terephthalate
Ester Industries Ltd.

Message:

KEY FEATURES
UmaPET CO/CI has good transparency, excellent machinability, high gloss and flexibility.
One side corona treatment for improvement in adhesion to inks, adhesives and metal in metallization.
The film possesses good thermal, mechanical, optical and surface properties along with excellent transparency and dimensional stability.

APPLICATIONS
The film is designed for use in printing, metallizing, coating and lamination processes widely for flexible packaging applications.

General Information			
Features	Excellent Printability		
	Good Adhesion		
	Good Dimensional Stability		
	Good Flexibility		
	Good Surface Finish		
	High Clarity		
	High Gloss		
	Machinable		
	Metallizable		
	Opticals		
Uses	Coating Applications		
	Film		
	Laminates		
	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	0.48		
vs. Itself - Dynamic ²	0.48		
vs. Itself - Dynamic ³	0.48		
vs. Itself - Dynamic ⁴	0.44		
vs. Itself - Static ⁵	0.54		
vs. Itself - Static ⁶	0.54		
vs. Itself - Static ⁷	0.54		
vs. Itself - Static ⁸	0.50		
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	52	dyne/cm	
Coated side : 12.0 μm	52	dyne/cm	
Coated side : 15.0 μm	52	dyne/cm	
Coated side : 23.0 μm	52	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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