

UmaPET UL

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET UL is ultra high clear film having very Low Haze, high clarity and gloss.

Excellent frictional and thermal properties alongwith excellent process ability.

APPLICATIONS

The film is used for various graphic and optical applications; labels face stocks, as safety window film, pressure sensitive labels, Hologram, glitter powder and Packaging applications.

UL complies with FDA regulation 21CFR177.1630 sections (f) and (g) for direct and in-direct food contact.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Low Friction		
	Opticals		
Uses	Film		
	Labels		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1630 Sections (f) & (g)		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0360 mm	2.5	%	
Flow : 150°C, 30 min, 0.0500 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0360 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0500 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 - Static ³	0.45		
vs. Itself - Static ⁴	0.45		
Films	Nominal Value	Unit	Test Method

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Film Thickness - Tested	50	μm	
Film Thickness - Recommended / Available	36, 50 μm		
Tensile Strength			ASTM D882
MD : Break, 36 μm	177	MPa	
MD : Break, 50 μm	167	MPa	
TD : Break, 36 μm	186	MPa	
TD : Break, 50 μm	186	MPa	
Tensile Elongation			ASTM D882
MD : Break, 36 μm	130	%	
MD : Break, 50 μm	130	%	
TD : Break, 36 μm	120	%	
TD : Break, 50 μm	120	%	
Yield			Internal Method
36.0 μm	19.8	m ² /kg	
50.0 μm	14.3	m ² /kg	
Wetting Tension - Plain side			ASTM D2578
36.0 μm	44	dyne/cm	
50.0 μm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
36.0 μm	90.0	%	
50.0 μm	90.0	%	
Haze			ASTM D1003
36.0 μm	1.0	%	
50.0 μm	1.2	%	
NOTE			
1.	50 μm		
2.	36 μm		
3.	36 μm		
4.	50 μm		

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