

UmaPET HC

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET HC is transparent film possessing high clarity, high gloss, low haze and good frictional and thermal properties. The Film can be used for direct contact with food and complies with FDA regulation 21CFR177.1630 sections (f) and (g).

APPLICATIONS

The film is widely used for high gloss metallizing applications.

Labels face stock, Drawing and Drafting end use applications.

Hologram, Glitter Powder and high end packaging applications for high gloss.

General Information			
Features	Food Contact Acceptable		
	High Clarity		
	High Gloss		
	Low Friction		
	Metallizable		
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, 0.0230 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, 0.0230 mm	0.40	%	
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	0.42		
vs. Itself - Dynamic ³	0.40		
vs. Itself - Static ⁴	0.48		
vs. Itself - Static ⁵	0.50		
vs. Itself - Static ⁶	0.50		

Films	Nominal Value	Unit	Test Method
	23		
	36		
Film Thickness - Tested	50	µm	
Film Thickness - Recommended / Available	23, 36, 50 µm		
Tensile Strength			ASTM D882
MD : Break, 23 µm	186	MPa	
MD : Break, 36 µm	177	MPa	
MD : Break, 50 µm	167	MPa	
TD : Break, 23 µm	206	MPa	
TD : Break, 36 µm	186	MPa	
TD : Break, 50 µm	177	MPa	
Tensile Elongation			ASTM D882
MD : Break, 23 µm	100	%	
MD : Break, 36 µm	130	%	
MD : Break, 50 µm	140	%	
TD : Break, 23 µm	90	%	
TD : Break, 36 µm	120	%	
TD : Break, 50 µm	130	%	
Yield			Internal Method
23.0 µm	31.0	m ² /kg	
36.0 µm	19.8	m ² /kg	
50.0 µm	14.1	m ² /kg	
Wetting Tension - Plain side			ASTM D2578
23.0 µm	44	dyne/cm	
36.0 µm	44	dyne/cm	
50.0 µm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
23.0 µm	90.0	%	
36.0 µm	90.0	%	
50.0 µm	90.0	%	
Haze			ASTM D1003
23.0 µm	1.6	%	
36.0 µm	1.8	%	
50.0 µm	2.0	%	
NOTE			

1.	50 μm
2.	36 μm
3.	23 μm
4.	23 μm
5.	36 μm
6.	50 μm

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