

# UmaPET MH

Polyethylene Terephthalate

Ester Industries Ltd.

## Message:

### KEY FEATURES

UmaPET MH film is medium Haze, medium gloss film with excellent muted and grainy surface.

The film exhibits excellent thermal, mechanical and matte surface properties along with excellent dimensional stability and excellent process ability.

After metallization, shows silver finish as aesthetic.

### APPLICATIONS

The film is widely used for label face stocks, carrier for thermal transfer printing, hot stamping, paper board and carton lamination applications.

Metallized films can be used as label face stocks and sandwich barrier layer which shows silver aesthetic appearance to the package in flexible packaging.

MH film is also used in FRP / GRP segment as carrier layer.

General Information			
Features	Good Dimensional Stability		
	Good Processability		
	Medium Gloss		
	Metallizable		
Uses	Film		
	Labels		
	Laminates		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0120 mm	2.0	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction <sup>1</sup>			ASTM D1894
vs. Itself - Dynamic	0.38		
vs. Itself - Static	0.45		
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	12	µm	
Film Thickness - Recommended / Available	12 µm		
Tensile Strength			ASTM D882
MD : Break, 12 µm	186	MPa	
TD : Break, 12 µm	196	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	90	%	
TD : Break, 12 µm	85	%	
Yield (12.0 µm)	59.5	m <sup>2</sup> /kg	Internal Method

Wetting Tension - Plain side (12.0 μm)	44	dyne/cm	ASTM D2578
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	48		ASTM D2457
Haze (12.0 μm)	44	%	ASTM D1003
NOTE			
1.	12 μm		

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