

# UmaPET MHLIMH

Polyethylene Terephthalate  
Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET MHLIMH is high barrier matte metallized film, metallized on chemical surface other side plain. It exhibits high barrier properties along with superior metal to film bond strength/adhesion.

It has superior mechanical properties, flex crack resistance.

It shows silver finish from matte side as aluminium foil appearance.

APPLICATIONS

UmaPET MHLIMH is used as high barrier layer in flexible packaging applications which require high barrier and high bond strength in laminates.

Used in flexible packaging for aluminium foil like appearance in laminates.

Typical usage as barrier layer in laminates for confectionary, snacks, instant drink powder, milk powder, tea, coffee etc.

General Information			
Features	Barrier Resin		
	Bondability		
	Good Adhesion		
	Good Crack Resistance		
	High Gloss		
	Metallizable		
Uses	Film		
	Laminates		
	Packaging		
Appearance	Matte Finish		
	Silver		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0120 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Surface Tension - Metallized side (12.0 µm)	56	mN/m	ASTM D2578
Yield (12.0 µm)	59.5	m <sup>2</sup> /kg	Internal Method
Optical Density (12.0 µm)	-2.5 to 7.5	%	Internal Method
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 $\mu\text{m}$	90	%	
TD : Break, 12 $\mu\text{m}$	85	%	
Oxygen Permeability <sup>1</sup> (23°C, 12 $\mu\text{m}$ )	< 0.800	$\text{cm}^3/\text{m}^2/24 \text{ hr}$	ASTM D3985
Water Vapor Transmission <sup>2</sup>	< 0.60	$\text{g}/\text{m}^2/24 \text{ hr}$	ASTM F1249
NOTE			
1.	0%RH		
2.	37.8°C, 90%RH, 12 $\mu\text{m}$		

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