

# UmaPET MHM

Polyethylene Terephthalate  
Ester Industries Ltd.

Message:

KEY FEATURES  
UmaPET MHM is barrier matte metallized film, metallized normal surface other side plain. It exhibits good barrier properties along with good metal to film adhesion.  
It has superior mechanical properties, flex crack resistance.  
It shows silver finish from matte side as aluminium foil appearance.

APPLICATIONS  
UmaPET MHM is used as barrier layer in flexible packaging applications which require barrier and aluminium foil like appearance in laminates.  
Typical usage as barrier layer in laminates for confectionary, snacks, instant drink etc.

General Information			
Features	Barrier Resin		
	Good Adhesion		
	Good Crack Resistance		
	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	%	
Flow : 150°C, 30 min, 0.0230 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0230 mm	0.40	%	
Surface Tension - Metallized side			ASTM D2578
12.0 µm	56	mN/m	
23.0 µm	56	mN/m	
Yield			Internal Method
12.0 µm	59.5	m²/kg	
23.0 µm	31.0	m²/kg	
Optical Density			Internal Method
12.0 µm	-2.8 to 7.2	%	
23.0 µm	-2.8 to 7.2	%	

Films	Nominal Value	Unit	Test Method
	12		
Film Thickness - Tested	23	μm	
Film Thickness - Recommended / Available	12, 23 μm		
Tensile Strength			ASTM D882
MD : Break, 12 μm	186	MPa	
MD : Break, 23 μm	186	MPa	
TD : Break, 12 μm	196	MPa	
TD : Break, 23 μm	196	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 μm	90	%	
MD : Break, 23 μm	90	%	
TD : Break, 12 μm	85	%	
TD : Break, 23 μm	85	%	
Oxygen Permeability <sup>1</sup>			ASTM D3985
23°C, 12 μm	< 1.00	cm <sup>3</sup> /m <sup>2</sup> /24 hr	
23°C, 23 μm	< 0.900	cm <sup>3</sup> /m <sup>2</sup> /24 hr	
Water Vapor Transmission			ASTM F1249
-- <sup>2</sup>	< 0.70	g/m <sup>2</sup> /24 hr	
-- <sup>3</sup>	< 0.80	g/m <sup>2</sup> /24 hr	

#### NOTE

1. 0%RH
2. 37.8°C, 90%RH, 23 μm
3. 37.8°C, 90%RH, 12 μm

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