

# UmaPET AOCM

Polyethylene Terephthalate

Ester Industries Ltd.

## Message:

### KEY FEATURES

UmaPET AOCM is medium barrier metallized film, metallized on corona surface other side acrylic coated. It exhibits good barrier properties along with good metal to film bond strength/adhesion.

It has excellent mechanical properties, flex crack resistance and excellent gloss.

### APPLICATIONS

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

Typical usage as barrier film 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		
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			ASTM D2578
Acrylic Side : 12.0 µm	44	mN/m	
Metallized side : 12.0 µm	56	mN/m	
Yield (12.0 µm)	59.5	m <sup>2</sup> /kg	Internal Method
Optical Density (12.0 µm)	-2.8 to 7.2	%	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	206	MPa	
TD : Break, 12 µm	216	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	100	%	

TD : Break, 12 $\mu\text{m}$	90	%	
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>	< 0.70	$\text{g}/\text{m}^2/24 \text{ hr}$	ASTM F1249

NOTE

1. 0%RH
2. 37.8°C, 90%RH, 12  $\mu\text{m}$

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