

UmaPET TFMH

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET TFMH is high barrier metallized film, metallized on plain surface with plasma, other side plain. 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 TFMH is used as sandwich barrier layer in flexible packaging applications which require good barrier and good bond strength in laminates.

Typical usage as barrier layer in laminates for confectionary, milk powder, cereals, juice powder, snacks, chips, extruded foods, tea 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, 0.0100 mm	2.5	%	
Flow : 150°C, 30 min, 0.0120 mm	2.5	%	
Across Flow : 150°C, 30 min, 0.0100 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.40	%	
Surface Tension - Metallized side			ASTM D2578
10.0 µm	56	mN/m	
12.0 µm	56	mN/m	
Yield			Internal Method
10.0 µm	71.4	m ² /kg	
12.0 µm	59.5	m ² /kg	
Optical Density			Internal Method
10.0 µm	-2.4 to 7.6	%	
12.0 µm	-2.4 to 7.6	%	
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	12	μm
Film Thickness - Recommended / Available	10, 12 μm	
Tensile Strength		ASTM D882
MD : Break, 10 μm	206	MPa
MD : Break, 12 μm	206	MPa
TD : Break, 10 μm	216	MPa
TD : Break, 12 μm	216	MPa
Tensile Elongation		ASTM D882
MD : Break, 10 μm	100	%
MD : Break, 12 μm	100	%
TD : Break, 10 μm	90	%
TD : Break, 12 μm	90	%
Oxygen Permeability ¹		ASTM D3985
23°C, 10 μm	0.700	cm ³ /m ² /24 hr
23°C, 12 μm	0.800	cm ³ /m ² /24 hr
Water Vapor Transmission		ASTM F1249
-- ²	0.40	g/m ² /24 hr
-- ³	0.50	g/m ² /24 hr
NOTE		
1.	0%RH	
2.	37.8°C, 90%RH, 10 μm	
3.	37.8°C, 90%RH, 12 μm	

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