

UmaPET ULM

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET ULM is medium metallized film with excellent metal gloss, metallized on plain surface with plasma. It exhibits good barrier properties along with good metal to film bond strength/adhesion.

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

APPLICATIONS

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

Useful for high aesthetic appeal in surface printing applications as barrier layer in laminates for decorative cartons, confectionary, 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, 0.0120 mm	2.5	%	
Flow : 150°C, 30 min, 0.0150 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, 0.0150 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	
15.0 µm	56	mN/m	
23.0 µm	56	mN/m	
Yield			Internal Method
12.0 µm	59.5	m ² /kg	
15.0 µm	47.6	m ² /kg	
23.0 µm	31.0	m ² /kg	

Optical Density			Internal Method
12.0 µm	-2.8 to 7.2	%	
15.0 µm	-2.8 to 7.2	%	
23.0 µm	-2.8 to 7.2	%	
Films	Nominal Value	Unit	Test Method
	12		
	15		
Film Thickness - Tested	23	µm	
Film Thickness - Recommended / Available	12, 15, 23 µm		
Tensile Strength			ASTM D882
MD : Break, 12 µm	206	MPa	
MD : Break, 15 µm	186	MPa	
MD : Break, 23 µm	186	MPa	
TD : Break, 12 µm	216	MPa	
TD : Break, 15 µm	206	MPa	
TD : Break, 23 µm	206	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	100	%	
MD : Break, 15 µm	100	%	
MD : Break, 23 µm	100	%	
TD : Break, 12 µm	90	%	
TD : Break, 15 µm	90	%	
TD : Break, 23 µm	90	%	
Oxygen Permeability ¹			ASTM D3985
23°C, 12 µm	0.900	cm ³ /m ² /24 hr	
23°C, 15 µm	0.800	cm ³ /m ² /24 hr	
23°C, 23 µm	0.800	cm ³ /m ² /24 hr	
Water Vapor Transmission			ASTM F1249
-- ²	0.60	g/m ² /24 hr	
-- ³	0.60	g/m ² /24 hr	
-- ⁴	0.60	g/m ² /24 hr	
NOTE			
1.	0%RH		
2.	37.8°C, 90%RH, 23 µm		
3.	37.8°C, 90%RH, 15 µm		
4.	37.8°C, 90%RH, 12 µm		

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