

UmaPET ITM

Polyethylene Terephthalate

Ester Industries Ltd.

Message:

KEY FEATURES

UmaPET ITM is medium barrier, isotropic metallized film. It exhibits excellent isotropic balanced mechanical properties along with superior barrier and good metal to film bond strength/adhesion.

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

APPLICATIONS

UmaPET ITM is used as barrier layer in form of lidding in flexible packaging applications which require good barrier and high bond strength in laminates. Typical usage as lidding film in yogurt, milk, flavored dairy products, cakes, chocolates and other cup packed products.

General Information			
Features	Barrier Resin		
	Bondability		
	Good Adhesion		
	Good Crack Resistance		
	High Gloss		
	Metallizable		
Uses	Film		
	Lids		
	Packaging		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0120 mm	2.2	%	
Flow : 150°C, 30 min, 0.0230 mm	2.2	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.0	%	
Across Flow : 150°C, 30 min, 0.0230 mm	0.0	%	
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	m ² /kg	
23.0 µm	31.0	m ² /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

Film Thickness - Tested	23	μm	
Film Thickness - Recommended / Available	12, 23 μm		
Tensile Strength			ASTM D882
MD : Break, 12 μm	216	MPa	
MD : Break, 23 μm	196	MPa	
TD : Break, 12 μm	226	MPa	
TD : Break, 23 μm	206	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 μm	100	%	
MD : Break, 23 μm	100	%	
TD : Break, 12 μm	95	%	
TD : Break, 23 μm	95	%	
Oxygen Permeability ¹			ASTM D3985
23°C, 12 μm	< 0.800	cm ³ /m ² /24 hr	
23°C, 23 μm	< 0.700	cm ³ /m ² /24 hr	
Water Vapor Transmission			ASTM F1249
-- ²	< 0.60	g/m ² /24 hr	
-- ³	< 0.70	g/m ² /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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