

# UmaPET IT

Polyethylene Terephthalate

Ester Industries Ltd.

## Message:

### KEY FEATURES

Uma PET IT is transparent film with plain surfaces in both sides. One side chemically coated or corona treated is also available as option.

This film shows excellent isotropic characteristics i.e. high and balanced mechanical properties alongwith good thermal, mechanical, optical and surface properties.

### APPLICATIONS

The film is widely used for lidding, printing, coating applications as well as lamination with paper and thin foils, metallising applications.

General Information			
Features	Excellent Printability Good Surface Finish Metallizable Opticals		
Uses	Coating Applications Film Foil Coatings Laminates Lids		
Appearance	Clear/Transparent		
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	%	
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic <sup>1</sup>	0.45		
vs. Itself - Dynamic <sup>2</sup>	0.42		
vs. Itself - Static <sup>3</sup>	0.50		
vs. Itself - Static <sup>4</sup>	0.48		
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	%	
Yield			Internal Method
12.0 μm	59.5	m <sup>2</sup> /kg	
23.0 μm	31.0	m <sup>2</sup> /kg	
Wetting Tension - Plain side			ASTM D2578
12.0 μm	44	dyne/cm	
23.0 μm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
12.0 μm	3.5	%	
23.0 μm	4.5	%	
NOTE			
1.	12 μm		
2.	23 μm		
3.	12 μm		
4.	23 μm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT