

UmaPET YN

Polyethylene Terephthalate
Ester Industries Ltd.

Message:

KEY FEATURES
UmaPET YN has good transparency, excellent machine ability, high gloss and flexibility.
Film has excellent dimensional stability at elevated temperature.
It has excellent mechanical, optical and surface properties.

APPLICATIONS
The film is widely used for production of normal yarn, metallic yarn, high temperature coating and other industrial applications.

General Information			
Features	Good Dimensional Stability		
	Good Flexibility		
	Good Surface Finish		
	High Clarity		
	High Gloss		
	Machinable		
	Opticals		
Uses	Coating Applications		
	Film		
	Industrial Applications		
	Yarn		
Appearance	Clear/Transparent		
Forms	Film		
Physical	Nominal Value	Unit	Test Method
Molding Shrinkage			ASTM D1204
Flow : 150°C, 30 min, 0.0120 mm	4.5	%	
Flow : 150°C, 30 min, 0.0150 mm	4.5	%	
Flow : 150°C, 30 min, 0.0230 mm	4.5	%	
Across Flow : 150°C, 30 min, 0.0120 mm	0.0	%	
Across Flow : 150°C, 30 min, 0.0150 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 ¹	0.45		
vs. Itself - Dynamic ²	0.45		
vs. Itself - Dynamic ³	0.42		
vs. Itself - Static ⁴	0.50		
vs. Itself - Static ⁵	0.50		

vs. Itself - Static ⁶	0.48		
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	226	MPa	
MD : Break, 15 µm	216	MPa	
MD : Break, 23 µm	216	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	90	%	
MD : Break, 15 µm	90	%	
MD : Break, 23 µm	90	%	
TD : Break, 12 µm	100	%	
TD : Break, 15 µm	100	%	
TD : Break, 23 µm	100	%	
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	
Wetting Tension - Plain side			ASTM D2578
12.0 µm	44	dyne/cm	
15.0 µm	44	dyne/cm	
23.0 µm	44	dyne/cm	
Optical	Nominal Value	Unit	Test Method
Haze			ASTM D1003
12.0 µm	3.5	%	
15.0 µm	3.5	%	
23.0 µm	3.5	%	
NOTE			
1.	15 µm		
2.	12 µm		
3.	23 µm		

4.	12 μm
5.	15 μm
6.	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

