

UmaPET HSI/HSO

Polyethylene Terephthalate
Ester Industries Ltd.

Message:

KEY FEATURES

Uma PET HS is transparent film with one side Co-extruded layer of special copolymer.

The special copolymer layer is design to heat seal onto itself as well as substrates such as APET, C-PET, Modified C-PET and A-PET coated boards.

HS film has excellent flatness, dimensional stability, and barrier. high clarity

The Film can be used for direct contact with food and complies with FDA regulation 21CFR177.1630 sections (f) and (g).

APPLICATIONS

Excellent in flexible packaging applications as sealant for products which need high aroma barrier like perfumed tissues, mosquito mats etc.

Suitable for used in monolayer over wrap, temper evident packaging.

Suitable for sealing cap liner for PET jars, see through lid for preformed PET trays, microoven able pouches for sandwich.

General Information			
Features	Barrier Resin		
	Copolymer		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Heat Sealable		
	High Clarity		
Uses	Film		
	Food Wrap		
	Liners		
	Packaging		
	Seals		
Agency Ratings	FDA 21 CFR 177.1630 Sections (f) & (g)		
Appearance	Clear/Transparent		
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, 0.0200 mm	2.0	%	
Flow : 150°C, 30 min, 0.0250 mm	2.0	%	
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, 0.0200 mm	0.40	%	
Across Flow : 150°C, 30 min, 0.0250 mm	0.40	%	
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	0.45		
vs. Itself - Dynamic ⁴	0.45		
vs. Itself - Static ⁵	0.55		
vs. Itself - Static ⁶	0.55		
vs. Itself - Static ⁷	0.55		
vs. Itself - Static ⁸	0.55		
Films	Nominal Value	Unit	Test Method
	12		
	15		
	20		
Film Thickness - Tested	25	µm	
Film Thickness - Recommended / Available	12, 15, 20, 25 µm		
Tensile Strength			ASTM D882
MD : Break, 12 µm	177	MPa	
MD : Break, 15 µm	177	MPa	
MD : Break, 20 µm	172	MPa	
MD : Break, 25 µm	172	MPa	
TD : Break, 12 µm	186	MPa	
TD : Break, 15 µm	186	MPa	
TD : Break, 20 µm	181	MPa	
TD : Break, 25 µm	181	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	100	%	
MD : Break, 15 µm	100	%	
MD : Break, 20 µm	100	%	
MD : Break, 25 µm	100	%	
TD : Break, 12 µm	90	%	
TD : Break, 15 µm	90	%	
TD : Break, 20 µm	90	%	
TD : Break, 25 µm	90	%	
Yield			Internal Method
12.0 µm	59.5	m ² /kg	
15.0 µm	47.6	m ² /kg	

20.0 μm	35.7	m ² /kg	
25.0 μm	28.6	m ² /kg	
Seal Strength ⁹			Internal Method
140°C, 12.0 μm	393.7	g/2.5 cm	
140°C, 15.0 μm	492.1	g/2.5 cm	
140°C, 20.0 μm	492.1	g/2.5 cm	
140°C, 25.0 μm	590.6	g/2.5 cm	
Wetting Tension - Plain side			ASTM D2578
10.0 μm	44	dyne/cm	
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	3.0	%	
15.0 μm	3.0	%	
20.0 μm	3.5	%	
25.0 μm	40	%	
NOTE			
1.	12 μm		
2.	20 μm		
3.	15 μm		
4.	25 μm		
5.	20 μm		
6.	12 μm		
7.	15 μm		
8.	25 μm		
9.	Seal to seal surface, 2s, 3 kg/cm ²		

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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



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