



TECHNICAL DATA SHEET

UT-21 is a blown, cloudy polyethylene (PE) film primarily composed of polyethylene, featuring a sealant layer blended with plastomer. It offers excellent sealing performance, particularly under contaminated conditions

FEATURE

- 1) Good sealing through contamination when some substance sticks at the seal area.
- 2) Reduced powder and dust adhesion.
- 3) Low sealing initiation temperature at 95-105°C.
- 4) Suitable for food packaging
- 5) Good cutting, no scrap.

USE

Form fill to seal and seal through contamination (oil and powdered products).

General Physical property of White PE-Seal Through Contamination (Roll Form)

Description		Unit	Specification				Test Method
Width		mm	Order +5,-0				UPI Method
Length		m	Order 0,+3%				
Thickness		um	30-39 ±7%	40-59 ±5%	60-99 ±4%	100-120 ±3%	
Tensile Strength	MD	MPa	≥ 20				ASTM D 882 /JIS K 7127
	TD		≥ 15				
Elongation at Break	MD	%	≥ 400		≥ 500		
	TD		≥ 600		≥ 700		
Kinetic COF : Non Treated side		-	0.10 - 0.30				ASTM D 1894/JIS K 7125
Heat seal strength		Kgf/15mm	*				UPI Method
Corona Treated :	Non-Treated	Dynes	None				
	Inside-Treated		38-44				
Color of Film		-	Cloudy				
Gel	Number	pcs./m ²	10				
	Size Ø	mm	0.5-1.0				
Black spot	Number	pcs./m ²	5				
	Size Ø	mm	0.1-0.5				
Remark.*Refer to the table 1.							

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Table 1 Heat seal strength

Thickness (um)	Temperature(C °)	Unit	Specification	Test Method
30-49	140		≥ 0.8	UPI Method
50-70			≥ 1.0	
71-79			≥ 1.5	
80-99	160		≥ 2.0	
100-120				
121-129				
130-140	170		≥ 2.5	
141-200				

Note :

Raw Material : Linear Low Density Polyethylene, Low Density Polyethylene, Slip agent, Antiblock agent, Antistatic agent, and Processing aid.

Statutory and regulatory : Complies with U.S. FDA : 21 CFR part 177.1520, RoHS, Commission Regulation (EU) No 10/2011. The Notification of the Ministry of Public Health (No.435) B.E. 2565 (2022)

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Appearance :	The film shall be uniform ; free of pin hole , foreign matter and streaks.
Storage :	Store in dry place, high temperature not over 40 °C, keep away from direct sunlight, high moisture and fuel gas from LPG gas.
Product guarantee :	The physical properties is not over a year. The change in color of film The change in color of film or appearance is not over six months. The corona treatment and COF property is not over three months from the date of manufacture.

Roll Characteristics.

Width tolerance	:	(+5, -0)mm.(measure on film)
Internal Core diameter	:	76 (+3 , -0) mm.
Joint	:	1 for 20% maximum of total delivery.
Number of joint	:	Maximum 1 joint/roll with red tape.
Film Appearance	:	The film shall be uniform ; free of pin hole , foreign matter and streaks. No creasing , no swollen roll. No corrugation , no blocking. Misalignment is not over 2 mm.

Packaging.

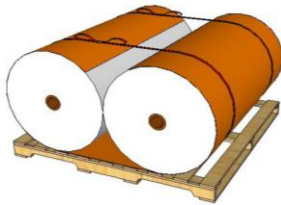
☐ A

☐ B

☐ C

☐ D

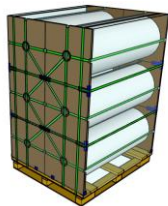
A . Horizontal for laminate film



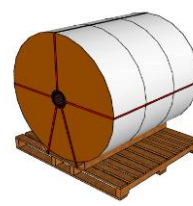
B. Vertical for laminate film



C. Hanging horizontal for shipping and airfreight



D. Horizontal for Heavy duty sack



Roll Identification:

Each roll is identified with label sticked on the roll.

There is information including customer name , width , length , thickness , weight , corona treatment , etc.

The production history can monitor on batch number 15 digits described below;

AA	BB	CC	DDDDDD	- EEE
↓	↓	↓	↓	↓
Type of sale order	Production year	Production month	Number of sale order	Roll Number

Approved by (Customer) :
Position :
Company :
Date :