

TECHNICAL DATA SHEET

UT-23D is super low temperature sealing white film which the main material is polyethylene. It is superior in sealing property, hot tack property and dart drop impact.

FEATURE

- 1) UT-23D is lower temperature sealing with an initial of 95-105°C, which is lower than general sealing films about 10-30°C.
- 2) It is white LLDPE sealant film use together with MDO polyethylene (UM-50).
- 3) UT-23D provides high strength and improves dart drop impact to the pouch.
- 4) Requires protection the product from sunlight.

USE

Laminate as sealant layer of MDO polyethylene (UM-50)

General Physical property of White Super low temperature seal

Description			Unit	Specification			Test Method
Width			mm	Order +5,-0			UPI Method
Length			m	Order 0,+3%			
Thickness			um	40-59 ±5%	60-99 ±4%	100-140 ±3%	
Tensile Strength	MD		MPa	≥ 20			ASTM D 882 /JIS K 7127
	TD			≥ 15			
Elongation at Break	MD		%	≥ 400	≥ 500	≥ 700	
	TD			≥ 600	≥ 700	≥ 800	
Kinetic COF : Non Treated side			-	0.1 - 0.3			ASTM D 1894/JIS K 7125
Heat seal strength			Kgf/15mm	*			UPI Method
Corona Treated :	Non-Treated		Dynes	None			
	Inside-Treated			38-44			
Opacity			%	≥ 65	≥ 65	≥ 80	ASTM E313
Dart drop Impact strength : (Method A)			g	≥ 150	≥ 400	≥ 700	ASTM D1709
Color of Film			-	White			UPI Method
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
25-30	140	Kgf/15mm	≥ 0.7	UPI Method
31-49			≥ 0.8	
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 : Initial seal condition is 95-105°C, 2 bar, 1 sec depending on film thickness.

Raw Material :

Linear Low Density Polyethylene, Low Density Polyethylene, Slip agent, Antiblock agent, Processing aid

White masterbatch

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

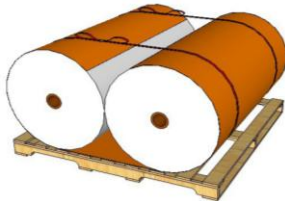


C



D

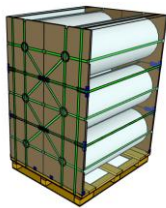
A . Horizontal for laminate film



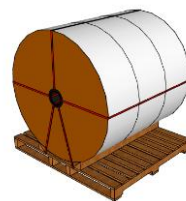
B. Vertical for laminate film



C. Hanging horizontal for shipping and airfreight



D. Horizontal for Heavy duty sack



Roll Identification:

Each roll is identified with label stucked 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 :