



TECHNICAL DATA SHEET

UB-40 is a stretched film with a basis weight of 45 gsm, designed as a breathable film. It is light blue in color and primarily composed of polyethylene compounded with calcium carbonate (CaCO_3).

FEATURE

- 1) UB-40, Breathable film is blown and stretched PE + CaCO_3 film which is a feature achieved by stretching the film to create microholes.
- 2) Good dispersion to achieve uniform breathability across the film.
- 3) To improve the surgeon's vision by adding light blue color.

USE

Disposable surgical gown, disposable surgical drapes, etc.

General Physical property of BREATHABLE FILM

Description		Unit	Specification	Test Method
Width		mm	Order +5,-0	UPI Method
Length		m	Order 0,+3%	
Thickness		um	50±7%	
Grammage		gsm	45.5±5.2	
Tensile Strength	MD	N/25mm	≥ 18	ASTM D 882 / JIS K 7127
	TD		≥ 4	
Elongation at Break	MD	%	≥ 30	
	TD		≥ 200	
Water Vapor Transmission Rate		g.m ² /day	≥4500	JIS Z 0208 (90.0%RH and 40.0 C°)
Corona Treated :	Non-Treated	Dynes	None	UPI Method
	Inside-Treated		38-44	
Color of Film		-	Light Blue	
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	
Color spot	Number	pcs./m ²	<10	
	Size Ø	mm ²	>7	
Fish eye	Number	pcs./m ²	5	
	Size Ø	mm	0.1-0.5	

Note :

Raw Material : Calcium carbonate, Low Density Polyethylene, Color masterbatch, Desiccant

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)

Updated Date : 13/5/2026

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FM-RND-027 Rev.00

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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

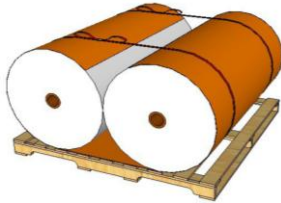
☐

C

☐

D

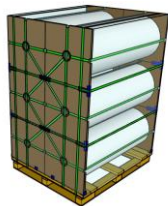
A . Horizontal for laminate film



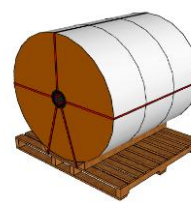
B. Vertical for laminate film



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 :