

Breathable film is the polymer film, based on polyethylene material, they permeable to gas and vapor and impermeable to liquids.

Application:

As a back sheet in sanitary napkin, directly or laminated with nonwoven layer-

As a back sheet in diaper, directly or laminated with nonwoven layer-

Hospital's gown, safety apron, disposable quilts etc. laminated with nonwoven layer.

Physical Properties Table:

	Property	Unit	Value	Tolerance	Test Method
1	Grammage	gr/m ²	22	± 10.0 %	-
2	Thickness	μ	24	± 10.0 %	
3	Water Vapor Transfer Rate (WVTR)	gr/(m ² .day)	4000	± 10.0 %	ASTM E398-03
4	Tensile Strength at break MD (at Break, N/25mm)	N	16	± 20.0 %	ASTM D882-02
5	Tensile Strength at break CD (at Break, N/25mm)	N	2.5	± 20.0 %	ASTM D882-02
6	Elongation MD (at break)	%	100	± 20.0 %	ASTM D882-02
7	Elongation CD (at break)	%	500	± 20.0 %	ASTM D882-02
8	Color		Depend on customer order, any color is available		

Note:

Grammage is available between 15-150 gr/m²

Water vapor transfer rate is available between 500-6000 gr/ (m².day). It depends on thickness & customer order.



Breathable Film (22 GSM)

Datasheet & Specification

Advantages:

Due to water vapor permeability and formulation design, they have a lot of advantages against common layers such as:

- 1- **More gentle:** They are similar to soft clothes and make a pleasant sense in contact with user's skin.
- 2- **Healthier:** Due to reduce moisture, the possibility of microbial growth is decrease. Also they decrease the allergic effects. This type of film is strongly recommended for sensitive skins.
- 3- **More comfortable:** Breathable films let the natural circulation of air around user's skin is going done. This ability helps skin to adjust body temperature and humidity.
- 4- **Powerful absorption:** These layers increase the absorption capability of sanitary napkins, diapers, disposable quilts and etc. This feature comes from breathability and specific formulation design.
- 5- **Reduce final cost:** Achieving a new technology, these types of backsheets can decrease a considerable amount of hot melt gum usage. In some cases you can reduce hot melt gum more than 50%! Accordingly it can be so effective in total cost.
- 6- **Long time expiration:** without any properties reduction –especially corona treatment-, they can be used even after 18 months.
- 7- **Printable:** This film shows good printability properties.
- 8- **Completely soundless:** Thanks to new formulation and using special production technics we achieve quite soundless and silent film. This advantage help costumer to use it comfortably and calmly in public and private place.

Packaging:

These films are available on roll with these specifications:

Roll width: 10-160 cm

Film length: 1000-18000 m

Storage:

This product shall be storage in dry place and protect against flame and direct sunlight. The best temperature for storage is 20 °C.