



Breathable Film Solutions

A breath of fresh air



Nitto developed a breathable film, high in comfort, affordable to the end consumer and highly processable for our customers.

Benefits & Characteristics

For our customers



Performing

Efficient & processable on multiple converting lines



Pattern optimized

Cross direction (CD) and machine direction (MD), tailored pattern designs



Flexible

High flexibility for shape orientation, size, density and pattern design

For end customers



Breathable

Even in functional parts of the diaper - less skin irritations



Reliable

The perfect and comfortable fit stays unchanged



Comfortable

Breathability increases comfort for the wearer



Affordable

Thinnest substrates for the consumer

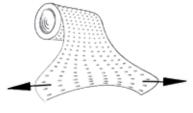


Sustainable

The Products & Highlight features at a glance

Breathable solutions for 180° open diapers and 360° pants.

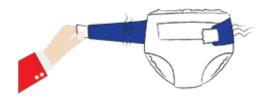
Discover our Breeze product range.



cross-direction

Premium Stretch Ear Breeze

Use: Baby care, adult incontinence Product options: PSE I - III, Evo, Lite



- 80 100 g/m²
- Identical extension performance 100 [%]
- Same or similar mechanical performance Permanent Set: < 5 [%]
 Elongation @ break 750 [%]



Breathability

Air permeability [m³/m²/min] acc. PA_256

WaistbandBreeze

Use: Baby care, adult incontinence Product options: Solastic-CD & Activated Waistband



- 40 or 50 µm film
- Multiple colors
- Identical unload performance
 [2nd @ 75 % = 1,1]
 Same or similar mechanical performance
 Permanent Set: < 5,5 [%]
 1st load force
 @ 120% cycle 2,8 [N/25 mm]



Breathability

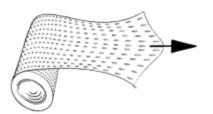
Air permeability [m³/m²/min] acc. PA 256

With our high-end stretch films, performance and comfort go hand-in-hand. For the ultimate product experience, contact us and ask for samples.

The Products & Highlight features at a glance

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machine-direction

MD Elastic FilmBreeze

Use: Adult incontinence, femcare Product options: Soft, SuperSoft





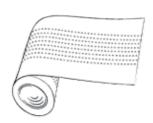
- 30 or 40 µm film
- Transparent, translucent, opaque
- Identical 2nd unload performance
 300% ~ 3 [N]
 similar converting performance, ~ 250 [%]
 MD pre-stretch ~ 250 [%]
 CD neck-in rate ~ 30 [%]



Breathability

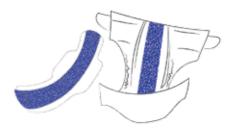
Air permeability acc. PA_256





TopsheetBreeze

Use: Baby care, adult incontinence, femcare Product options: ATB Loft 20 HI UW, CTB 22 HI



- 20 or 22 g/m²
- Perforation design:
 CD registered for functional area
- Concept study



Strike through / wetback

average strike through [S] acc .WSP70.3(08)



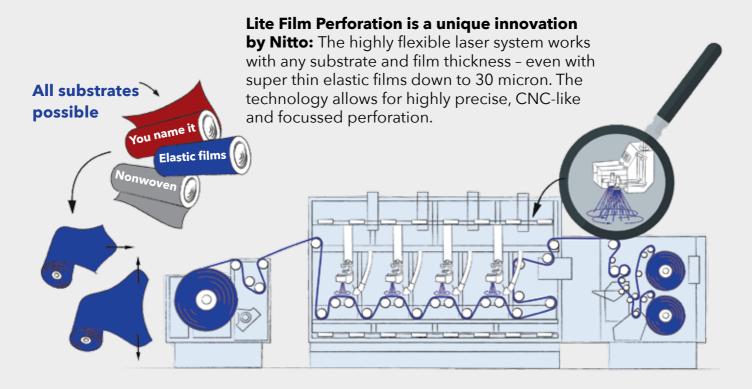
average wetback [g] acc. WSP80.10(09)

For samples and technical data sheets:

Contact us! www.nitto.com

The Technology

Lite Film Perforation (LFP)



Flexible perforation patterns are just one click away now!



Sustainability without compromise

With Lite Film Perforation, we can perforate even super thin substrates, saving material and production resources - with no compromise in film performance and comfort.

Elastic film

Perforated thin film with - comparable performance - lower CO₂ footprint - lower CO₂ footprint - no loss in comfort.

Waistband

Perforation of waistband leads to +6% CO2 impact only. Waistband Solastic CD 50 μ m vs. 40 μ m saves ~ 20% CO $_2$ equivalent.

