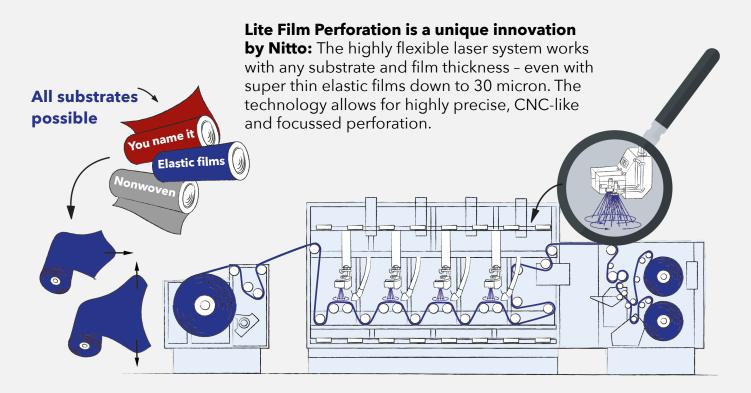
The Technology

Lite Film Perforation (LFP)



Flexible perforation patterns are just one click away now!

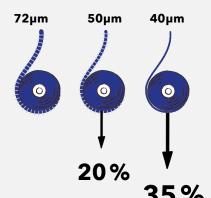


Sustainability without compromise

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

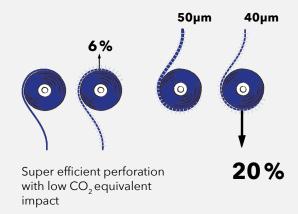
Elastic film

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



Waistband

Perforation of waistband leads to +6% CO2 impact only. Waistband Solastic CD 50µm vs. 40µm saves ~ 20% CO₂



Nitto Advanced Film Gronau GmbH









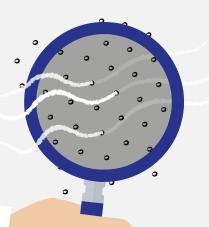




www.nitto.com

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



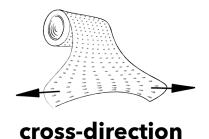
Affordable
Thinnest
substrates
for the consumer

Sustainable

Reduction of material use, saving production resources

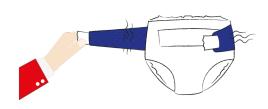
The Products & Highlight features at a glance

Breathable solutions for 180° open diapers and 360° pants. Discover our Breeze product range.



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 [%]



BreathabilityAir permeability [m³/m²/min]

acc. PA_256

WaistbandBreeze

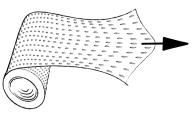
Use: Baby care, adult incontinence Product options: Solastic-CD & Activated Waistband



- 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]



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



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 [%]



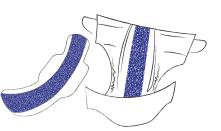
Breathability

Air permeability [m³/m²/min 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

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