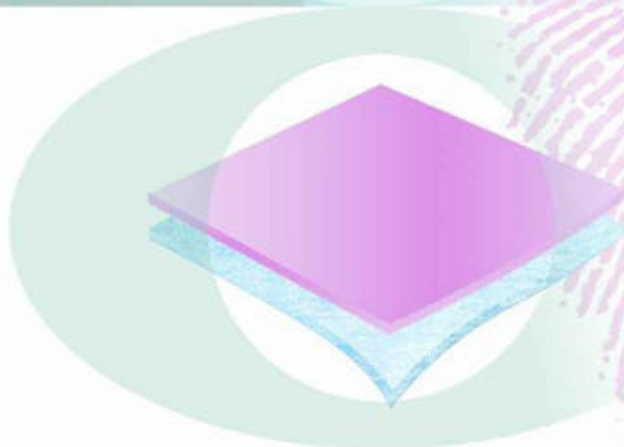
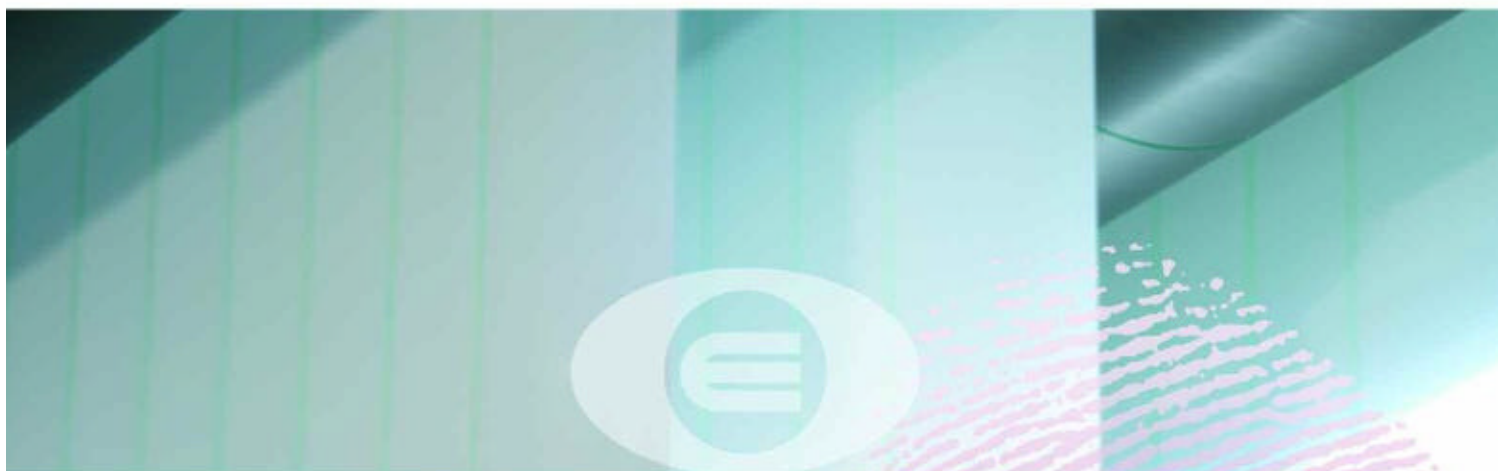


Hygiene **Hygien** 



Films and laminates  
for Absorbent Hygiene Products



# End-use applications

Our contribution to Hygiene single-use products consists of a range of laminates and films characterised by extra-softness, strength, breathability, high productivity, quality and continuous innovation.

EXTEN SA is well known in the market for its flexibility, customer care and quality consistency.

Typical applications are:

- Baby diapers  
(backsheets, cloth-like backsheets, closure systems)
- Feminine Care absorbent articles  
(backsheets, coverstocks, single wrapping)
- Adult incontinence  
(backsheets, underpads, single wrapping, closure systems)
- Breastpads



## Technology & Process

- Flat die, 5-layer co-extrusion, melt-embossing process, on-line CCD camera defects detection
- On-line one colour high speed printing
- Entire process according to ISO 9001-2000 procedures (certification since 1993)

## Main characteristics

- Full barrier against liquids, contaminants, bacteria, virus (no pinholes)
- Micro-embossed finish for a more comfortable and natural touch
- Outstanding softness – no rattle
- Based on different kinds of polyolefins (including next generation engineered co-polymers)
- Compliant with all Hygiene Regulations (ready to REACH norms)

## Product table

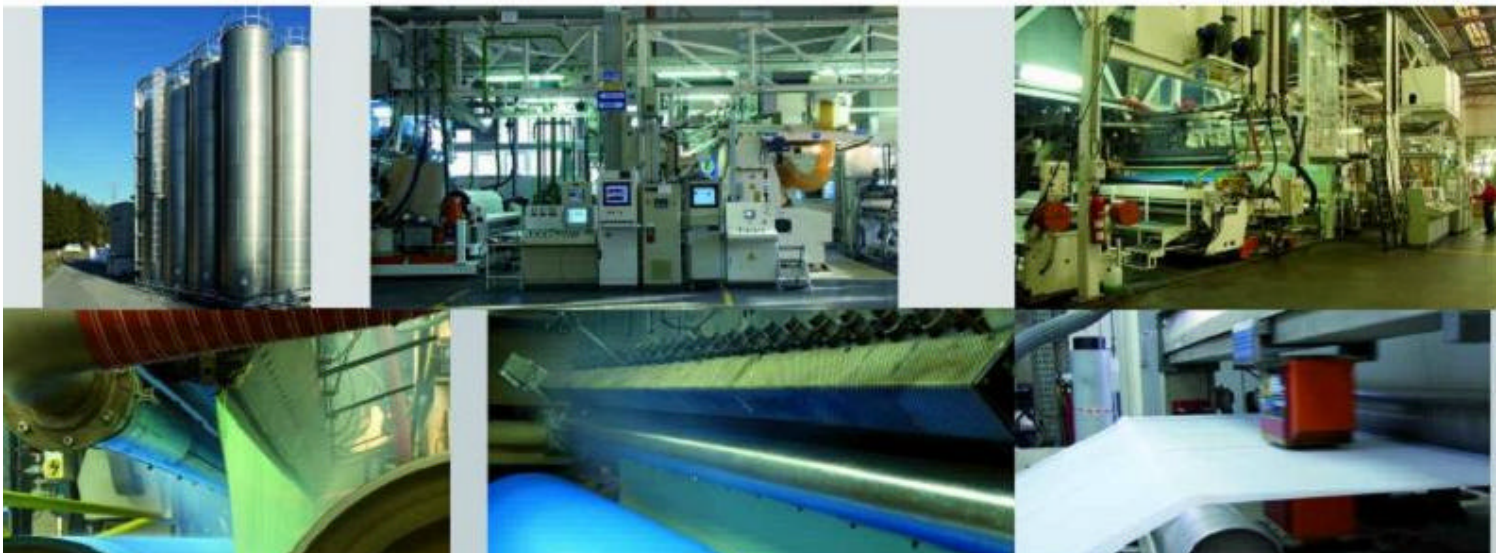
PRODUCT	SPH	EMFH-IP	EMFH-IP/C	EMFH-IP F12	EMFH-TR	EMF-P3	EMW-D	EMS-K
Properties and suggested application	Standard grade for backsheets underpads	Selected grade for backsheets and underpads	Special grade, high impact resistance for high speed stacking	Superior grade for downgauged backsheets and underpads	Special grade, high thermal resistance for ultra-thin next generation backsheets	Film for perforated topsheets	High crimping, easy opening film for individual wrapping of fem-care products	Special grade for on-line lamination very low thickness for eco-sustainable diapers
Soft touch	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓✓	✓✓✓✓	✓✓✓	✓✓✓✓
Tensile strength	✓✓	✓✓✓	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓	✓
Workability	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓
Rattle	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓
Downgauging properties	✓	✓✓	✓✓	✓✓✓	✓✓✓✓	✓✓✓	✓✓✓	✓✓✓✓

Legend : ✓Sufficient ✓✓Fair ✓✓✓Good ✓✓✓✓Excellent  
**All products can be one colour printed (on-line printing)**



## Product specifications

- Minimum available thickness: 12 my
- Available widths: from 45 to 2500 mm
- Roll core: 76 and 152 mm
- Roll diameter: up to 800 mm
- Wide range of colours (see relevant sample book)



# Laminates

## Technology & Process

- On-line coextrusion-lamination (films are directly extruded onto nonwovens without any glue)
- Hot-melt lamination (UFD technology) for special requirements

## Main characteristics

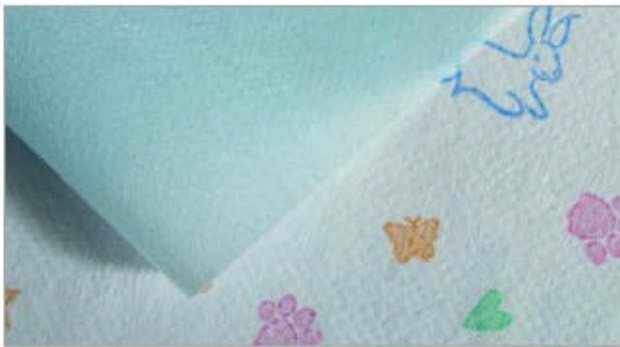
- Full barrier against liquids, contaminants, bacteria, virus (no pinholes)
- Substrate based on spunbonded and thermobonded PP or SMS and others (tissue, airlaid, wetlaid, carded chemical bonded) for special applications
- Film based on different kinds of polyolefins (including next generation engineered co-polymers)
- Compliant with all Hygiene Regulations (ready to REACH norms)
- Low environmental impact (no glue in case of coextrusion laminates)

Tailor made products are upon specific request.  
Contracting lamination is also offered.

## Product table

PRODUCT	CLB 20	CLB 24	CLB 27	CLB COLOURED	CLB PRINTED
Total gramage	20 gsm	24 gsm	27 gsm	various	various
Nonwoven type	Spunbonded/SMS PP	Spunbonded/SMS PP	Spunbonded/SMS PP	Spunbonded/SMS PP	Spunbonded/SMS PP
Nonwoven weight	10 gsm	13 gsm	14 gsm	various	various
Properties and suggested application	Very low gramage textile backsheets	General purpose textile backsheets	Soft touch, high strength textile backsheets	Customised textile backsheets	Customised textile backsheets

Special «SOFT» version available upon request



## Product specifications

- Available widths: from 45 to 2450 mm
- Roll core: 76 and 152 mm
- Roll diameter: up to 1200 mm
- Wide range of colours (see relevant sample book)
- Max 4 colours printing



# Specialties

SOFTEX is a water vapour permeable («Breathable») laminate made of a plastic film plus a nonwoven for baby and adult diapers backsheet and other protective articles / garments.



## Technical advance / Creative idea

- Outstanding material softness (no paper-like appearance as opposed to standard products)
- No deformation/shrinkage even at high temperatures during converting
- Very low risk of pinholes compared to existing products
- No hot melt glue for a lower environmental impact

## Additional info

Above mentioned characteristics are linked to a unique production technology (patent pending) which consists of a very efficient single step process rather than conventional systems based on grooved interpenetrated cylinders or monoaxial stretching + hot melt lamination. Thanks to the EXTEN SA process, the polyolefin / inorganic compound is directly extruded / laminated onto the non woven: breathability is achieved using an on-line special equipment, which biaxially modifies laminate structure and relevant properties.



Other special products proposed by Exten are:

- ELASTIC coextruded 5 layer films based on new generation elastomers and polyolefins, to be laminated and used for: closure systems, elastic diaper components and backsheets
- Laminates for closure systems (high mechanical and peeling strength)
- Laminates for breast pads

Upon request, siliconized films for individual wrapping of hygiene articles are available





 **EXTEN**  
films and laminates



CAST-COEXTRUDED FILMS AND SHEETS  
COEXTRUSION LAMINATION  
HOT-MELT LAMINATION  
UP TO 2500 mm WIDTH

Certified Quality System  
UNI EN ISO 9001:2000  
since 1993

