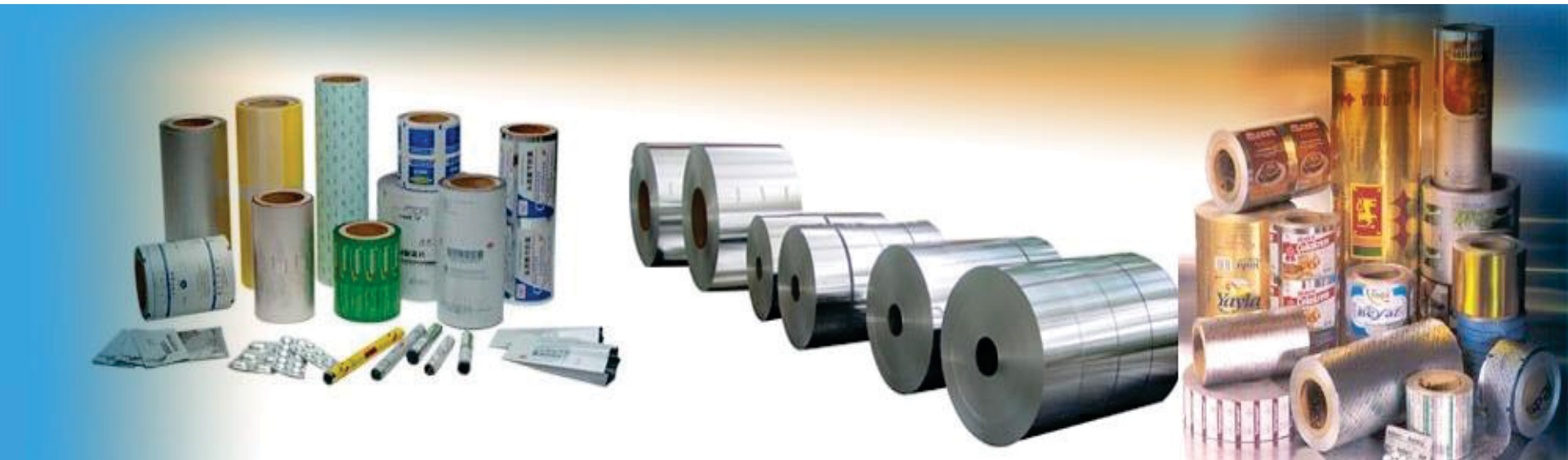


Foil Conversion Project

Technical Details of the Proposal



Applications



Aluminium foil.

Perfect protection
for pharmaceutical
products.



Aluminium foil.

In perfect shape
for every situation.



Aluminium foil.

The guarantee for
perfect pleasure in all
food segments.



Aluminium foil.

Thousands of opportunities,
one material.



Aluminium foil.

Perfect protection
for finest aroma.



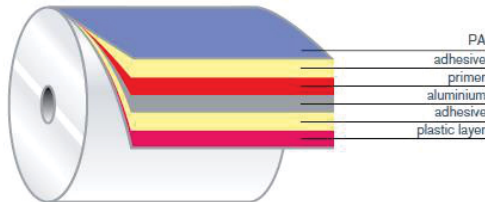
Aluminium foil.

Keep the freshness
inside.

Applications - Pharma

Coldform Foil

– ultimate protection against moisture, light, oxygen and other gases



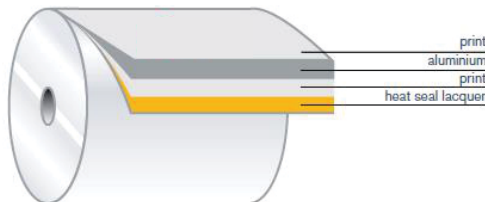
Material composition

- PA – aluminium – heat seal lacquer
- PA – aluminium – PVC
- PA – aluminium – PP
- PA – aluminium – PE
- PVC – PA – aluminium – PVC
- PP – PA – aluminium – PP



Blister Lidding Foil

– seals to PVC, PVDC, PE, PP and high-barrier base webs



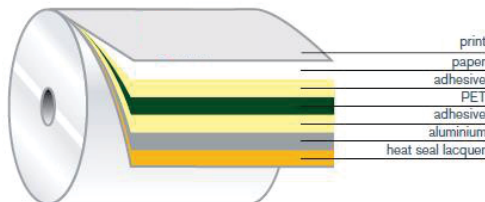
Material composition

- aluminium, hard or soft tempered
- various aluminium gauges
- lacquer systems for inline and offline printing
- several heat seal lacquer systems and coex coatings



Child-Resistant Blister Lidding Foil

– seals to PVC, PVDC, PE, PP and high-barrier base webs



Material composition

- paper – PET – aluminium – heat seal lacquer
- aluminium – PET – aluminium – heat seal lacquer
- paper – aluminium – heat seal lacquer
- PET – aluminium – heat seal lacquer
- aluminium – PET – heat seal lacquer

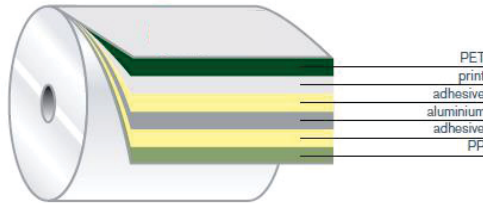
Opening systems: push-through, peel-off, peel & push, bend & tear



Applications - Pharma

High Performance Lidding Foil

– efficient solutions with dedicated sealing systems



Material composition

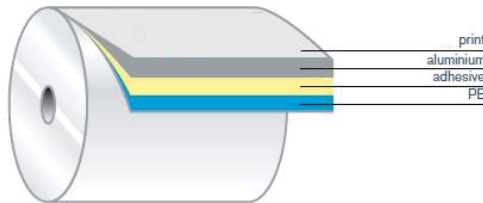
- PET – aluminium – PP
- print – PET – aluminium – PP
- print – aluminium – coex PP or PE peel
- PET – aluminium – coex PP peel

Also available: aluminium-free lidding foil as sterilisable lidding and as high barrier lidding foil



Strip Pack and Suppository Foil

– seal to themselves and have good formability with excellent barrier properties



Material composition

Strip Pack

- aluminium – PE
- paper – extr. – aluminium – extr. sealing medium

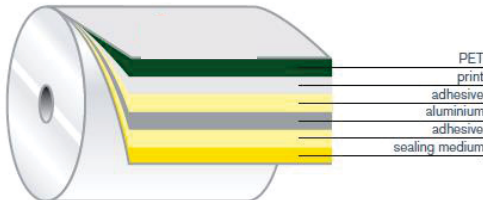
Suppository Foil

- aluminium – PE
- PA – aluminium – PE
- aluminium – coex PE



Sachet Foil and Laminate

– seal to themselves and provide an excellent barrier



Material composition

- paper – aluminium – sealing medium*, also extr.
- paper – extr. – aluminium – extr. sealing medium*
- PET – aluminium – sealing medium*
- PET – extr. – aluminium – extr. sealing medium*
- paper – aluminium – PA – sealing medium*
- paper – PE – aluminium – sealing medium*

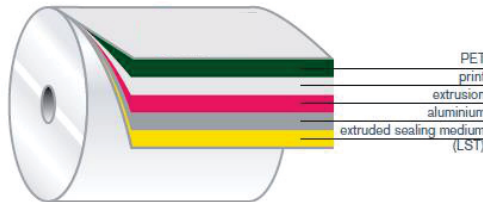
* depending on requirements polyethylene, ionomer, polyacrylonitril ...



Applications - Pharma

Overwrap Foil

- combines an excellent barrier with good flexibility, low sealing temperature (LST) and high seal integrity



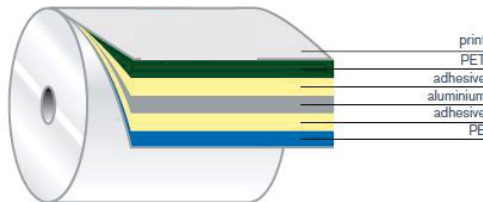
Material composition

- PET – extr. – aluminium – extr. – PE
- paper – extr. – aluminium – extr. sealing medium
- paper – extr. – aluminium – PE
- paper – PE – aluminium – sealing medium
- PET – aluminium – PE



Stick Pack Foil

- the take-along packaging with excellent barrier properties



Material composition

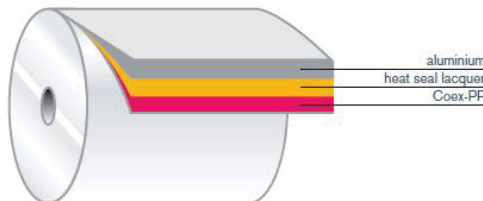
- paper – aluminium – PE*
- paper – aluminium – extr. sealing medium
- paper – extr. – aluminium – extr. sealing medium
- paper – extr. – aluminium – extr. – PE
- PET – aluminium – PE*
- PET – extr. – aluminium – extr. sealing medium
- PET – extr. – aluminium – extr. – PE
- PET – aluminium – extr. – PET – extr. sealing medium

* sealing media pharmaceutically approved



Dispense Lid

- developed to ease dosing of tablet out of a bottle



- Leaving orifice in a plastic layer after peeling off the aluminium lidding foil
- Avoiding desiccant bags from unwanted access
- Could help to increase compliance

Material composition

- *aluminium – heat seal lacquer – coex PP
- *aluminium – heat seal lacquer – coex PE

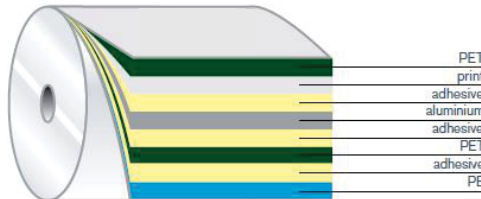
* depending on caps/bottles used there are additional PET and PE foam layers outside



Applications - Pharma

Sachet Foil – Promotional Sachet – Sampling

– excellent barrier and chemical resistance under extreme conditions



Material composition

4-ply Sampling

- PET – aluminium – PET – PE
- PET – aluminium – PET – CPP

3-ply Sampling

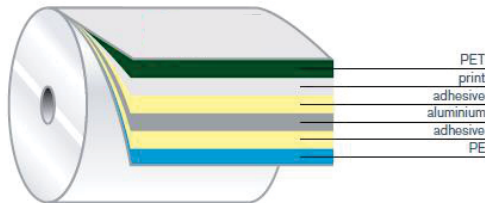
- PET – aluminium – PE

3-ply Sampling clear

- PET – barrier layer – PE

Sachet Foil – Retail Sachet – H2H Hand-to-Hand

– excellent barrier and long shelf life



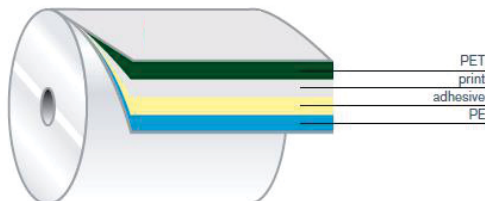
Material composition

3-ply H2H

- PET – aluminium – PE
- PET – aluminium – CPP
- PET – OPP met – PE

Wipe Foil

– low seal temperature foil for improved output & waste



Material composition

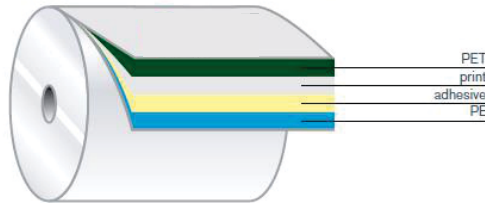
- PET – PE
- OPP – PE
- PET – high stiffness PE
- OPP – high stiffness PE



Applications - Pharma

Doypack Foil

- tailor-made laminate structure for rigidity, aesthetics, machineability and/or improved transparency



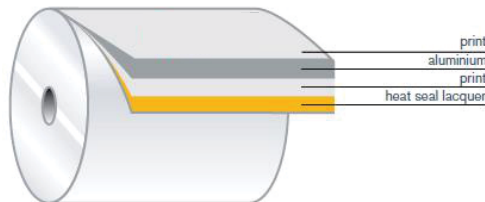
Material composition

- PET – PE
- PET – aluminium – OPA – PE
- PET – aluminium – PE
- PET – OPP met – PE



Blister Lidding Foil

- seals to PVC, PVDC, PE, PP and high-barrier base webs



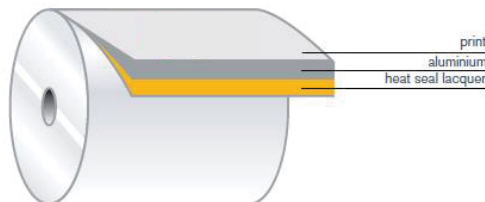
Material composition

- aluminium, hard or soft tempered
- various aluminium gauges
- also in combination with plastic
- lacquer systems for inline and offline printing
- several heat seal lacquer systems and coex coatings



Lidding and Sealing Foil for Cups and Cans

- for PP, PET, other plastics and metal cans



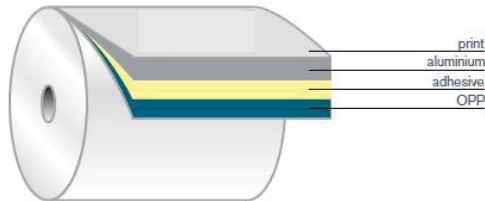
Material composition

- paper – aluminium – protective lacquer
- aluminium – lacquer
- aluminium – heat seal lacquer
- PET – aluminium – sealing medium
- PET – aluminium – PET – heat seal lacquer
- aluminium – PET – heat seal lacquer



Applications - Wrapper

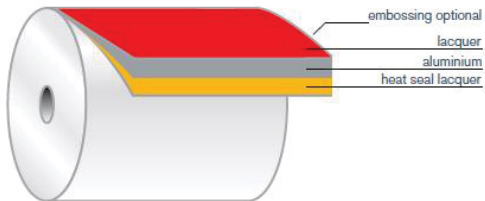
Graphic: Yellow Fat Wrapper



Laminated Wrappers

Yellow fat & Soft Cheese

- various specifications
- excellent deadfold properties
- high barrier
- premium image
- excellent fat resistance
- embossing option



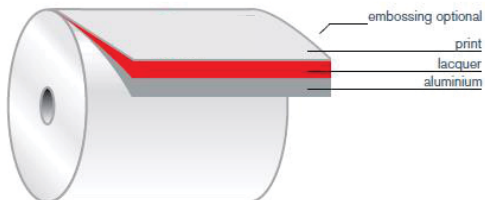
Monoweb Foils –

Insect Proof Foil

- (thermo) heatseal lacquered
- unsupported or lacquered insect proof foil
- water based environmentally friendly sealing system
- chlorine free



Graphic: Standard Novelty Foil

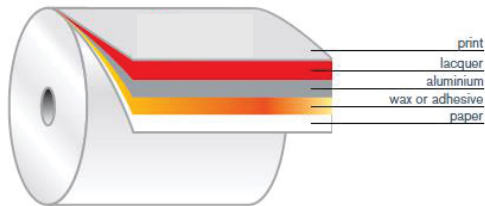


Novelty Foil

- individually specified aluminium quality
- optional Tepro[®]
 - increased tear resistance
 - outstanding deadfold
 - improved machine performance



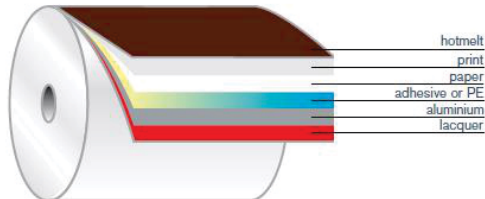
Applications - Wrapper



Duplex Laminate Foils – Quality & Experience

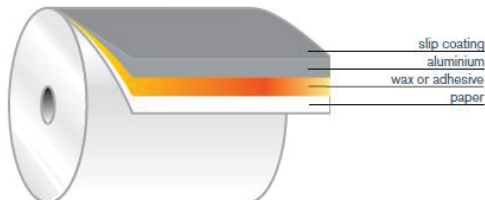
Chocolate Bar Wrapper

- outstanding laminating technologies
- excellent fold properties and optimum flatness
- exclusive styling of print design



Chewing Gum Outer Wrapper

- best H₂O and O₂ barrier
- highest product quality
- individually tailored sealing system

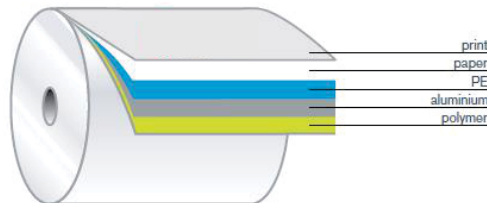


Chewing Gum Inner Wrapper

- excellent machine performance
- excellent deadfold properties
- proven product protection



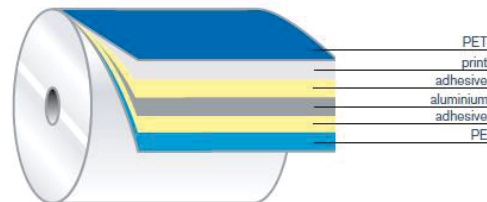
Applications - Pouches



High Barrier Tandem Extrusion Laminates

Standard Soup Pouch

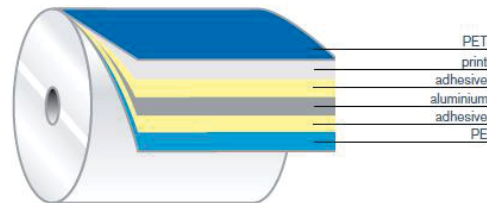
- good barrier properties
- good rigidity
- fast sealing
- gravure or UV-flexo printed



High Barrier Triplex Laminates

Sustain Pouch

- less packaging material and weight
- long shelf life
- first class puncture resistance
- good stiffness
- reverse print

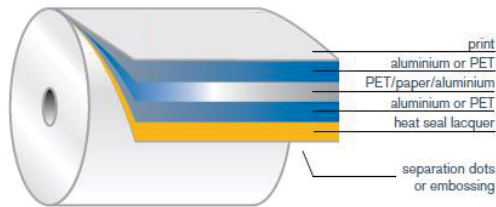


Film/Foil Laminate

- excellent gloss
- good puncture resistance
- good stiffness
- fast sealing
- excellent barrier properties

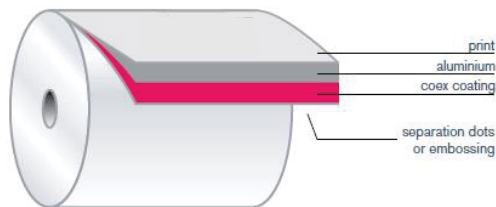


Applications - Lids



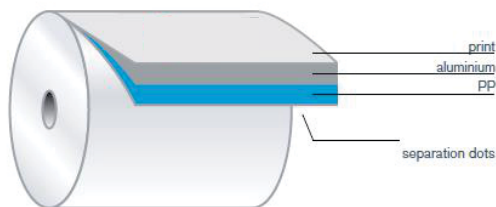
Laminate Die Cut Lid

- increased burst strength
- suitable for use with metal detection system in case of Paperlid
- individual solution



Coex Die Cut Lid

- advanced technology
- seals to all common plastics
- low temperature seal PP/PS version



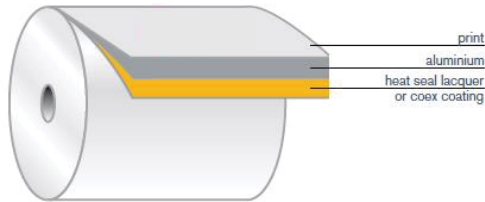
Comfor Lid

- "state of the art" lid – peel open alufoil pouring/drinking aperture
- runs on standard die cut machines
- convenience packaging for "on-the-go" consumption
- microwaveable option
- optional reclose



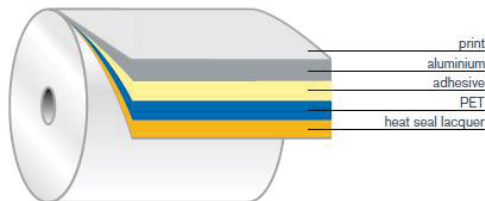
Applications –Lids

Form-Fill-Seal (FFS) Reels – Innovation Driver



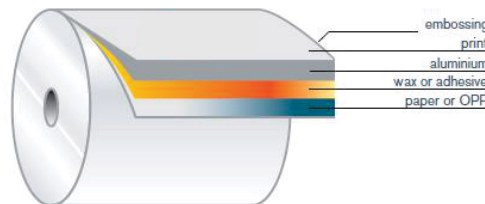
Aluminium

- well known solution for FFS equipment
- seals to all common plastics
- excellent barrier properties



Aluminium / Polyester

- increased tear resistance
- high barrier properties
- excellent puncture resistance
- seals to all common plastics



Bouillons

Foil Laminate

- various specifications possible (PE coated paper, hotmelt in register)
- embossing possible
- high fat resistance
- excellent moisture barrier
- outstanding deadfold
- good sealing properties

