

Global Packaging



# SKIN THERMOFORMING

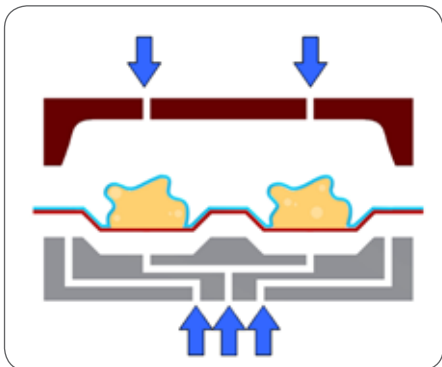
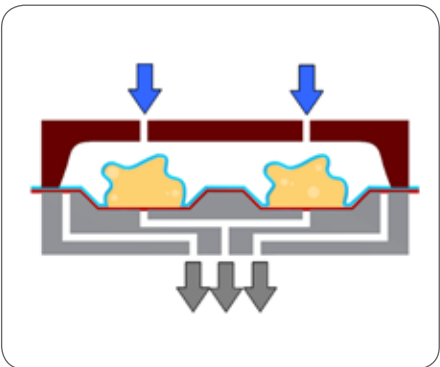
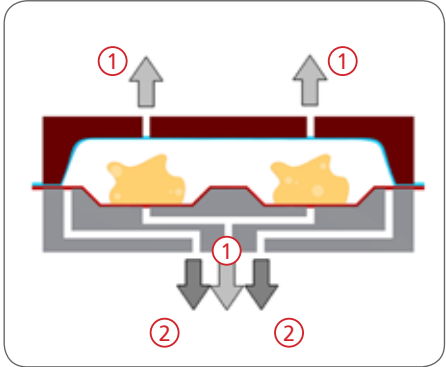
Best appearance with excellent durability

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# Skin packaging

## Skin pack process (Universal)

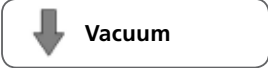


▶ First the film is pre-heated, stretching and adapting to the hot mould, leaving it totally malleable (1).

▶ Air is inserted from the top, making the hot film adapt to shape of the product and seal to the bottom film throughout the common contact surface.

▶ The mould is aired throughout to extract the product, obtaining a perfect result.

In the second phase, all air around the product is extracted (2).



## Skin pack types

ULMA Packaging offers several types of skin, in accordance with the properties of the product or package in question.



Universal Skin pack



Isopack Skin pack



Simple Isopack Skin pack



Double lid Skin pack

# Skin pack types

## Universal Skin pack

For products that must exceed the height of the bottom tray (product protruding).



# Skin pack types

## Isopack Skin pack

For products at risk of staining the sealing area. This pack has sealing all around the edge thanks to a mechanical sealing plate, providing improved hermeticity.

There may be some protruding, in accordance with the product.



## Simple isopack Skin pack

The difference in this case is the lack of protruding.

Only recommended for regular products and shallow trays.

It can be adapted to any conventional thermoformer.

The film is heated on the sealing plate, thus reducing productivity.

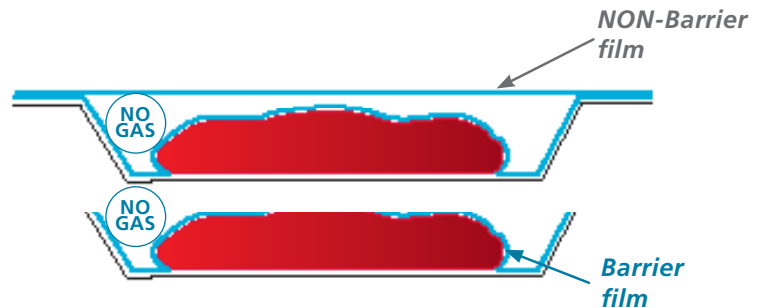


# Skin pack types

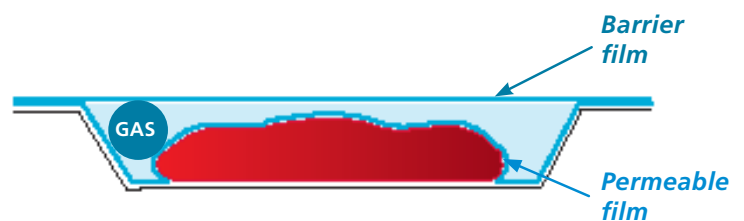
## Double lid Skin pack

This is a skin pack with a second top film that is used to close and cover the tray, for skin packaging that does not exceed tray height only (no protruding). This type of skin allows different film type combinations, depending on the characteristics needed on the product.

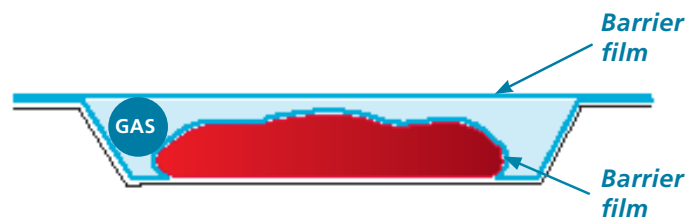
1- This type of skin pack allows labelling on the lid's surface, and the inclusion of promotional elements such as ingredients etc. in the space between cover lid and skin film. It also allows packs to be stacked correctly. The overcost of the additional lid is offset by the reduced dimensions of the tray, since it eliminates the need for a labelling area.



2- Another common skin application is the use of double lid cover with permeable skin film and a hermetic cover film to incorporate protective gas in the intermediate compartment, preventing colour changes in certain meat products. Products can be stacked without damaging them, just like an airbag protection.



3- This significantly increases product shelf life. The skin is provided through a barrier film, adding a second barrier film as cover in order to include protective gas in the intermediate compartment.



# Skin films and functional characteristics

## Permeable films

The aim of these films is to allow the product to breathe. Some products require packaging with permeable films that allow their gases to escape, in order to maintain their natural evolution. The most typical case is some cheeses that must release their CO<sub>2</sub> as part of their maturing process.



UNIVERSAL SKIN – FLEX. FILM

## Microwaveable packs

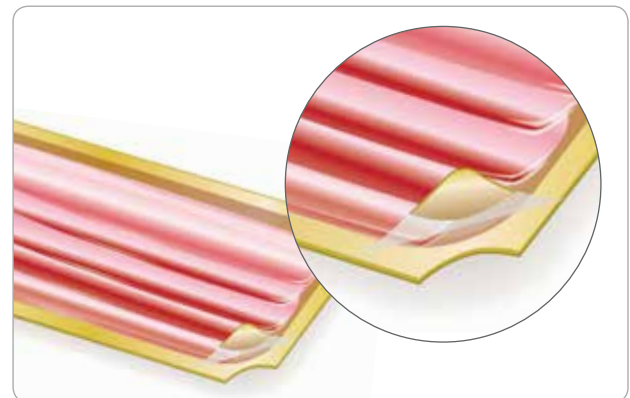
ULMA skin system is also compatible with pack film and trays that can be used in microwave. Designed especially for ready meals to be eaten from the package.



MICROWAVEABLE

## Easy-open packages

The SKIN packaging allows easy-open designs such as easy-open thumbnails, useful to open packages containing sliced product.



EASY-OPEN SYSTEM

## Packages with Eurolock

The skin packaging allows the product to be hung using different types of Eurolock, allowing vertical display.

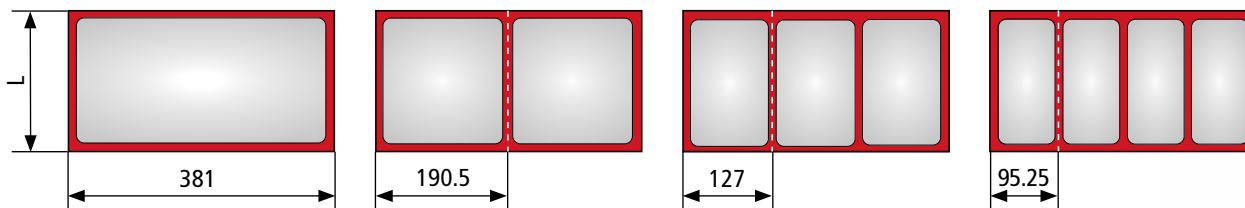


PACK WITH EUROLOCK

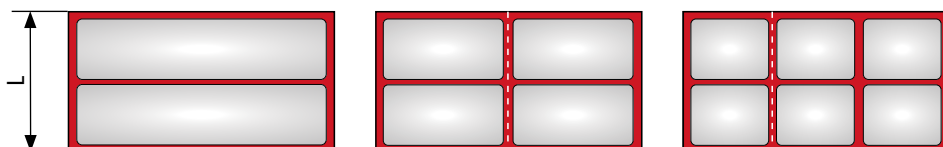
# Standard Skin thermoformers

**TFS 407** FILM WIDTH: 422 mm.

**ADVANCES:** L= 200, 230, 250, 270 mm.

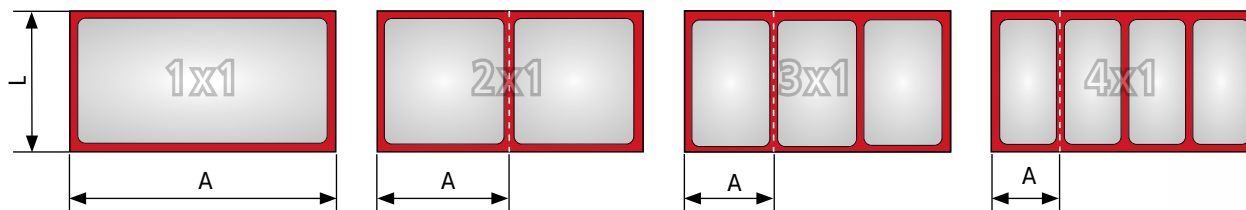


**ADVANCES (\*):** L= 250, 270 - SP ≤ 25 mm.

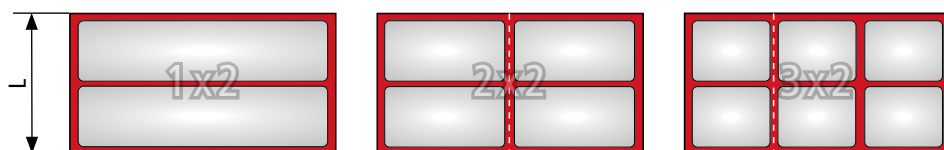


**TFS 607** FILM WIDTH: 422, 468, 562 mm.

**ADVANCES:** L= 230, 250, 270, 380, 420 mm.



**ADVANCES (\*):** L= 250, 380 - SP ≤ 25 mm



(\*) Does not apply without prior study

SP: Protruding.

		A (mm.)		
FILM WIDTH		422	468	562
FORMAT	1x1	374	420	514
	1x2			
	2x1	187	210	257
	2x2			
FORMAT	3x1	124,6	140	171,3
	3x2			
FORMAT	4x1	93,5	105	128,5





## Unique default settings for 407 and 607 models



### TFS 407

### TFS 607

MAXIMUM FILM WIDTH

422 mm.

422 / 468 / 562 mm.

MAXIMUM ADVANCE

200 / 230 / 250 / 270 mm.

230 / 250 / 270 / 380 / 420 mm.

MAXIMUM PROTRUDING

25 / 45 mm.

25 / 45 / 75 mm.

MAXIMUM PACK DEPTH

30 mm. (OPT. 50)

30 mm. (OPT. 50)

CADENCE

4-8 cycles/min.

5-10 cycles/min.

FRAME LENGTH

4000, 5000, 6000 mm.

5000, 6000, 7000 mm.

**ULMA reserves the right to change specifications without prior notice.**

# TFS Skin thermoforming range

	<b>TFS 407</b>
MAXIMUM FILM WIDTH	422 mm.
MAXIMUM ADVANCE	200 / 230 / 250 / 270 mm.
MAXIMUM PROTRUDING	25 / 45 mm.
MAXIMUM PACK DEPTH	Up to 30 mm. (OPT. 50)
CADENCE	4-8 cycles/min
FRAME LENGTH	4000- 6000 mm.
FILM TYPE	FLEXIBLE/RIGID
MAX. BOTTOM FILM THICKNESS	500 µ
PRINTED FILM	TOP
INTEGRATION LABEL	YES (only top film)
EASY-OPEN	YES (INT/INDP)
EUROLOCK	YES (INT) up to 3
FORMING SYSTEM	A/A+V
SHAPED CUTTING RIGID FILM	NO
SHAPED CUTTING FLEXIBLE FILM	NO
DOUBLE LID	NO
DOUBLE LID WITH GAS	NO
OPT. MAP OR VACUUM (2° SEALING DIE)	NO

Symbols:

"INT" (Integrated), "INDP." (Independent), "A" (Air), "V" (Vacuum), "P.A." (Plug assist), "MAP" (Modified atmosphere), "SP" (Protruding),

<b>TFS 507</b>	<b>TFS 607</b>	<b>TFS 707</b>
322-522 mm.	422 / 468 / 562 mm.	322-622 mm.
500 mm.	230 / 250 / 270 / 380 / 420 mm.	700 mm.
25 / 55 mm.	25 / 45 / 75 mm.	25 / 45 / 75 / 95 mm.
Up to 50 mm.	Up to 30 mm. (OPT. 50)	Up to 50 mm.
5-10 cycles/min	5-10 cycles/min	5-12 cycles/min
5000-8000 mm.	5000-7000 mm.	5000-14000 mm.
FLEXIBLE/RIGID	FLEXIBLE/RIGID	FLEXIBLE/RIGID
700 μ	500 μ	1000 μ
TOP/BOTTOM	TOP/BOTTOM	TOP/BOTTOM
TOP/BOTTOM	TOP/BOTTOM	TOP/BOTTOM
YES (INT/INDP)	YES (INT/INDP)	YES (INT/INDP)
YES (INT/INDP)	YES (INT/INDP)	YES (INT/INDP)
A/A+V/P.A.	A/A+V	A/A+V//P.A.
YES (SP 45)	NO	YES (SP 45)
YES (SP 55)	NO	YES (SP 95)
YES (300)	NO	YES
NO	NO	YES
YES (300) (AD. < 300 SP ≤ 45 mm)	NO	YES (SP ≤ 45 mm)

"AD." (Advance).

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# Service

## The ULMA advantage

At ULMA Packaging we are dedicated to working in close collaboration with our clients, which has become our key to customer satisfaction. Our Customer Focus through Service Excellence is the unique ULMA Advantage.



### Training

- Training led by a team of specialists.
- Our training includes courses both at ULMA and on-site.
- ULMA offers modern communication technology for long-distance training, including video conferencing.
- Training is carried out during start-up and full production. The training includes technical information on how to effectively use, clean and maintain the machine, along with important safety training.



### Preventative Maintenance

Keeping your packaging machines in good working conditions ensures higher productivity and profitability, making the recovery time for your investment much shorter.

ULMA offers customised preventive maintenance service including visits at regular intervals over the year by a trained technical ULMA specialist, who will thoroughly inspect the equipment, focusing on its major mechanisms, controls and safety elements.



### Spare Parts

- Spare parts in more than 20 countries, ensuring availability in the shortest time possible.
- Original spare parts, all of the highest quality.
- Guaranteeing delivery of standard spare parts to any part of the world within 24 hours via the express service and 3-4 days via normal service and for non-standard parts.
- ULMA guarantees the availability of any spare part for at least 10 years after the machine's initial supply.



### Technical Service

- We have highly qualified technicians in all countries around the world, providing a fast, locally-based service.
- Extensive Service Availability, offering access to resources and ease of contact from anywhere in the world.
- Immediate call centre service with technical experts specialising in the range of product lines.
- Remote online assistance, allowing our programmers to remotely control your machine and diagnose problems.
- Option to purchase spare part kits with the machine.
- Retrofit existing machinery in line with new formats or applications.



### ULMA Packaging

With over 50 years' experience, we are a worldwide reference in the design and manufacturing of high-tech packaging systems and equipment.

More than 50 years evolving, innovating, and perfecting our technology and services. An extensive network to offer solutions anywhere in the world, and to fully satisfy customers that place their trust in us.

For additional information, please visit our website:

[www.ulmapackaging.com](http://www.ulmapackaging.com)



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