SYST'AM® **P301C** & **P302C** / **POLYAIR® CUSHION**

PNEUMATIC AIR-CELLS CUSHION / SINGLE OR TWO COMPARTMENTS

MATERIALS

Laxprene®

Removable POLYMAILLE® cover

NF EN ISO 597 - 1 & 2

Foam maintenance:

(Do not immerse in water)

Cleaning of the cover:

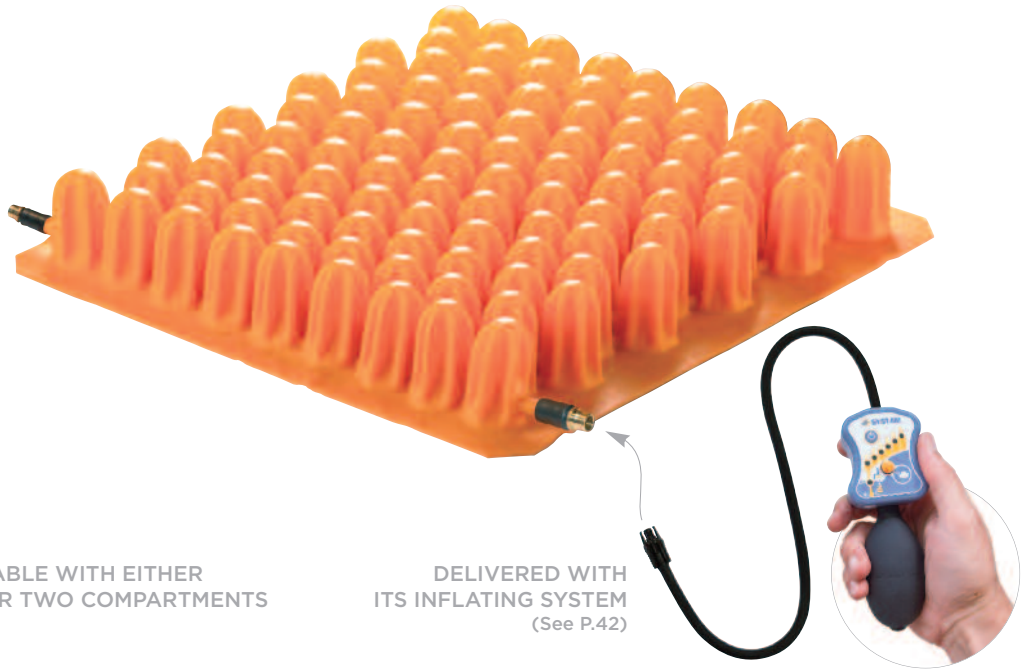
INDICATIONS

Risk

LOW — VERY HIGH

P301 - P302C / POLYAIR® cushion can be used, when:

- 1- already pressure sore (Stage I to IV according EPUAP) is present. OR
- 2- an increased to very high risk according evaluation scale (Braden, Norton, Waterlow, ...) is present. POLYAIR® cushion is suitable for patients with past history of pressure sore on contact with seating area, and/or complete or incomplete paralysis of the trunk or lower limbs, and/or with impaired or absent sensation of the lower member, and/or with spastik/Contractures and/or with impaired frontal & lateral stability, and/or with postural assymetries, unbalanced pelvic and/or with vascular amputation, and/or with bad general state.



AVAILABLE WITH EITHER ONE OR TWO COMPARTMENTS

DELIVERED WITH ITS INFLATING SYSTEM (See P.42)

AVAILABLE VERSIONS

P301C / POLYAIR® with POLYMAILLE® cover.

P302C / POLYAIR® with POLYMAILLE® cover.

P301C-*M* / POLYAIR® one compartiment with POLYMAILLE® cover.

P302C-*M* / POLYAIR® one compartiment with POLYMAILLE® cover.

DESIGNATION	ITEM CODE	W x L - cm / inches	min - MAX (kg / lbs)	BUTTOCK MEASUREMENT (cm / inches)
P301C / POLYAIR® 60 with POLYMAILLE® cover	P301C36361HW	36 x 36 /14 x 14"	20 - 60 / 44 - 132	50 - 75 / 19 - 29
	P301C40401HW	40 x 40 / 16 x 16	30 - 80 / 66 - 176	75 - 95 / 29 - 37
	P301C40431HW	40 x 43 / 16 x 17	30 - 90 / 66 - 198	75 - 115 / 29 - 45
	P301C40461HW	40 x 46 / 16 x 18	30 - 110 / 66 - 242	75 - 115 / 29 - 45
	P301C43431HW	43 x 43 / 17 x 17	30 - 110 / 66 - 242	95 - 115 / 37 - 45
	P301C46401HW	46 x 40 / 18 x 16	40 - 120 / 88 - 264	95 - 135 / 37 - 53
	P301C46461HW	46 x 46 / 18 x 18	40 - 140 / 88 - 308	115 - 135 / 45 - 53
	P301C51461HW	51 x 46 / 20 x 18	40 - 160 / 88 - 352	135 / 53 and +
	P301C51501HW	51 x 50 / 20 x 20	40 - 180 / 88 - 396	135 / 53 and +
P302C / POLYAIR® 100 with POLYMAILLE® cover	P302C40401HW	40 x 40 / 16 x 16	40 - 80 / 88 - 176	75 - 95 / 29 - 37
	P302C40431HW	40 x 43 / 16 x 17	40 - 90 / 88 - 198	75 - 115 / 29 - 45
	P302C40461HW	40 x 46 / 16 x 18	40 - 120 / 88 - 264	75 - 115 / 29 - 45
	P302C43431HW	43 x 43 / 17 x 17	40 - 110 / 88 - 242	75 - 115 / 29 - 45
	P302C46401HW	46 x 40 / 18 x 16	40 - 120 / 88 - 264	95 - 135 / 37 - 53
	P302C46461HW	46 x 46 / 18 x 18	40 - 140 / 88 - 308	115 - 135 / 45 - 53
	P302C51461HW	51 x 46 / 20 x 18	40 - 160 / 88 - 352	135 / 53 and +
	P302C51501HW	51 x 50 / 20 x 20	40 - 180 / 88 - 396	135 / 53 and +
P301C-*M* / POLYAIR® 60 One compartiment, with POLYMAILLE® cover	P301CM40401HW	40 x 40 / 16 x 16	30 - 80 / 66 - 175	75 - 95 / 29 - 37
	P301CM43431HW	43 x 43 / 17 x 17	30 - 110 / 66 - 240	95 - 115 / 37 - 45
	P301CM46461HW	46 x 46 / 18 x 18	40 - 140 / 88 - 310	115 - 135 / 45 - 53
P302C-*M* / POLYAIR® 100 One compartiment, with POLYMAILLE® cover	P302CM40401HW	40 x 40 / 16 x 16	40 - 80 / 88 - 175	75 - 95 / 29 - 37
	P302CM43431HW	43 x 43 / 17 x 17	40 - 110 / 88 - 240	95 - 115 / 37 - 45
	P302CM46461HW	46 x 46 / 18 x 18	40 - 140 / 88 - 310	115 - 135 / 45 - 53

CE WARRANTY 2 YEARS

SYST'AM® **P301C** & **P302C / POLYAIR® CUSHION**

EFFECTIVE, ERGONOMIC & COMFORTABLE

→ Ensures maximum patient contact with seating surface by moulding itself to protuberances of the sacrum area. This results in extremely effective reduction in transcutaneous pressure values (as measured by 3D pressure imaging devices) on the buttock areas with little or no counter-pressure.
→ POLYAIR® adapts to all anatomy types, particularly as a result of its internal air channel ventilation, enabling the cushion to rapidly adjust to the patient's morphology and protecting from tissue breakdown.
→ POLYAIR® is an effective solution in the prevention of pressure sores in high-risk areas and assists in the healing of previously formed sores.
→ POLYAIR® is equally effective as a weapon against the effects of maceration, friction and shear as a result of:
- improved aeration in areas at risk;
- reducton in tissue deformation;
- increased stability as a result of its honeycomb design.

THE WORKING PRINCIPLES

Adapts to the patient's morphology

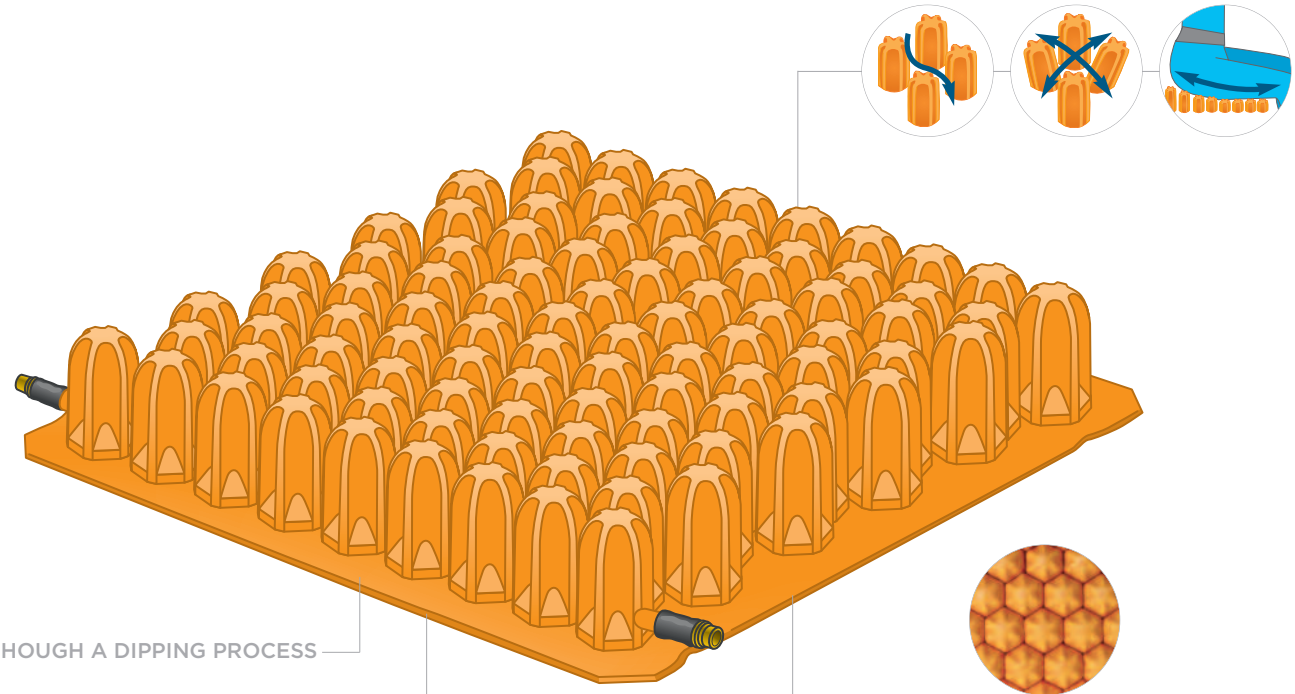
→ Reduces pressure through increased surface area;
→ POLYAIR® adapts to all anatomy types, particularly as a result of its internal air channel ventilation, enabling the cushion to rapidly adjust to the patient's morphology and protecting from tissue breakdown.

Cell independence and mobility

→ Enables effective counteracting of shearing
→ Ensures even pressure in all compartments.

Reduction in the effets of maceration

→ Aeration channels results in improved ventilation.



PRODUCE THOUGH A DIPPING PROCESS
(See P.42)

LAXPRENE®, A MODERN MATERIAL
(See P.42)

HONEYCOMB DESIGN
(See P.43)

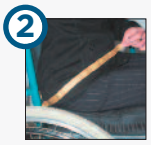
SYST'AM® INNOVATION
DELIVERED WITH ITS NEW ELECTRONIC MEASURING AND ADJUSTMENT SYSTEM

→ Pressure gauge completely designed and manufactured by SYST'AM®, specially produced by our R&D department for use with the POLYAIR® cushion
→ Fully electronic, the measuring system is extremely accurate and specifically calibrated to measure the micro-pressures inside the POLYAIR® cushion
→ Unlike membrane-type pressure gauges (such as those adapted from cardiology instruments), the measurements are not just more accurate with an electronic sensor, but they are also more reliable and reproducible as there is no risk of membrane deformation or wear. As a result, inflation is much more accurate.
→ To adjust pressure through deflation, just press a button
→ The new design makes the accessory more ergonomic, lighter, simpler and easier to use.

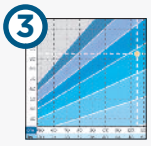
SYST'AM® P301C & P302C / POLYAIR® CUSHION

A simple inflating, thanks to the inflation matrix and the pressure gauge manometer

→ In order to determinate the inflating score, you need the weight of the patient.



→ The measurement of the buttock circumference reveals the contact surface with the cushion.

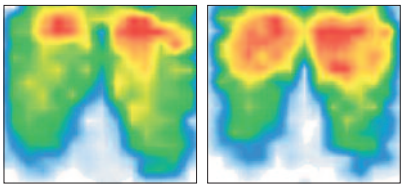


→ Cross the weight and buttock circumference on the inflating grid and read the inflating score for efficient pressure sore prevention.

A GENUINE INFLATION SYSTEM

→ Maladjusted inflating impairs the air cells cushions efficiency.
→ An over-inflated or under-inflated cushion can lead to pressure sore outbreak.
→ Since the inflating variations inside of each compartment (few MmHg) can not be detected through hand feeling, the sole way to inflate properly air cells cushions is to use inflating tools such as pressure gauge manometer.
Only the manometer is able to take into account the weight and contact surface of patient with the cushion. This method showing constant results grants an efficient prevention.

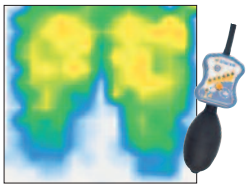
CUSHION INFLATED PER HAND



UNDER-INFLATED CUSHION OVER-INFLATED CUSHION

INEFFICIENT

INFLATED POLYAIR®-CUSHION WITH PRESSURE GAUGE

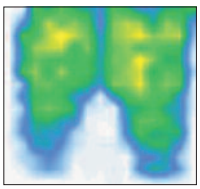


EFFICIENT PREVENTION

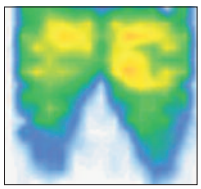
POLYAIR®: A CUSHION MADE THROUGH DIPPING PROCESS

The measures below were conducted with the same patient sitting on two different types of cushion (a cushion manufactured through dipping process and a cushion moulded with compression), both inflated to several different levels of pressure.

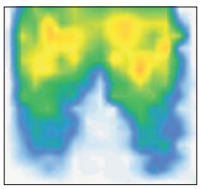
A cushion manufactured through dipping process
→ Flexible and elastic to the touch
→ Adaptable, with a progressive reaction to inflation



Pressure 30 mmHg

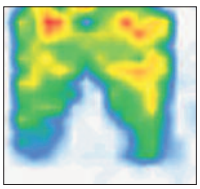


Pressure 40 mmHg

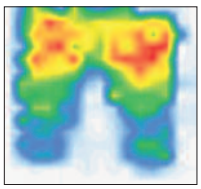


Pressure 50 mmHg

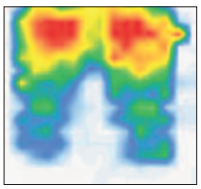
A cushion manufactured through Compression process
→ Greater thickness than with dipping technology
→ A tendency to harden when inflated.



Pressure 30 mmHg



Pressure 40 mmHg



Pressure 50 mmHg

CUSHION MADE OF LAXPRENE®

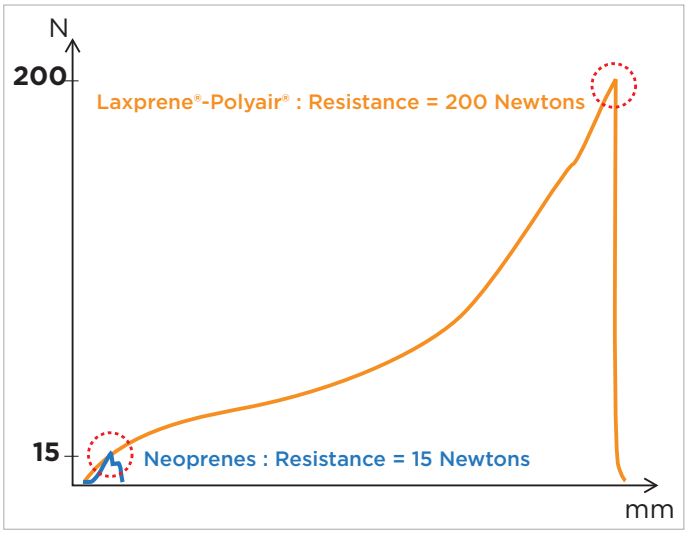
→ Laxprene® was developed from a specific compound mixture designed to offer:
- adaptability,
- tearing resistance,
- and pressure maintenance.

→ Durability was a major factor in the choice of Laxprene®.
This material makes the POLYAIR® highly resistant to large scale tearing (more resistant than neoprenes and polychloroprenes).

Features and performances of Laxprene

The Laxprene® material has been specially developed by SYST'AM® in order to get:
- an anallergical material (Laxprene®≠Latex);
- a very extensible material with a very high tearing resistance.

→ In addition, because the Laxprene® is worked through a dipping process, POLYAIR® benefits of a great suppleness, ensuring a perfect response to the inflation pressure.

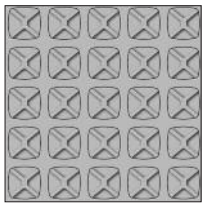


SYST'AM® **P301C** & **P302C / POLYAIR® CUSHION**

HONEYCOMB DESIGN:

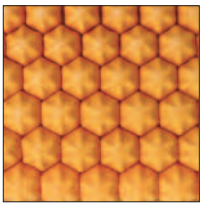
→ The honeycomb layout optimises the density of air cells and improves contact surface and pressure distribution in order to minimise the cutaneous pressures.

AIR CELLS CUSHION

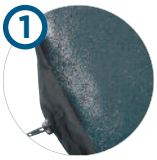


16 to 25 Cells

POLYAIR®



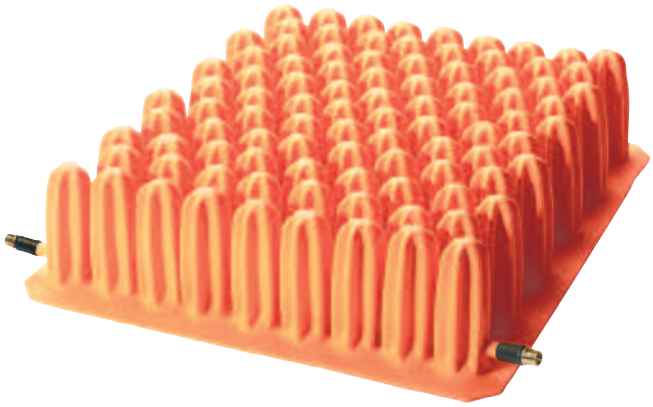
30 Cells



THE COVER

→ An anti-slip base: avoiding any sliding of the cushion from the support **1**.
→ Impermeable material (but permeable to steam and air): suitable for incontinence;
→ Reduces maceration effects through easing the skin respiration.
→ Side eyelets **2**:
- enables valves to be pushed inside the cushion after inflating;
- facilitates the flow of air between the inside and outside of the cover, which reduces the effects of maceration, as a result of the cushions' improved ventilation.

AVAILABLE IN TWO DIFFERENTS HEIGHT



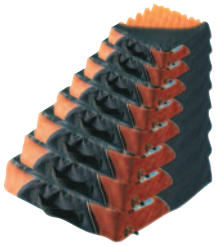
SYST'AM® P301C / POLYAIR® 60

→ P301C / POLYAIR® 60 is best suited to smaller, somewhat active patients independently able to shift their weight and requiring little or no assistance with transfer.

AVAILABLE IN
9 DIFFERENTS SIZES

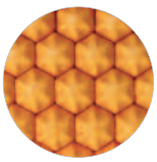
SYST'AM® P302C / POLYAIR® 100

→ P302C / POLYAIR® 100 is best suited to larger, less active patients with very limited mobility who are at high risk of developing, or have already developed, pressure sores.

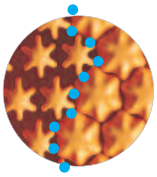


AVAILABLE IN
8 DIFFERENTS SIZES

EXISTE EN VERSIONS MONO ET BI-COMPARTIMENTS



One compartment version



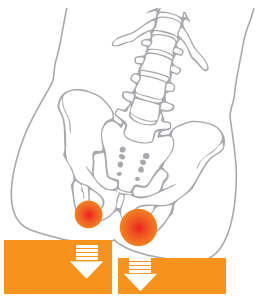
Two compartments version

→ Both compartments are totally independants to pressure/inflation.
→ Stability and comfort improved.

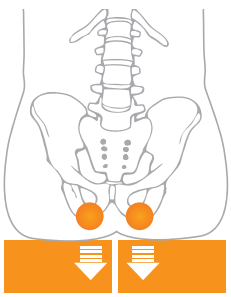
TWO COMPARTMENTS VERSION SPECIFICITIES

TWO SEPARATE COMPARTMENTS

→ All POLYAIR® cushions feature dual compartments (left and right) which act independently from each other. With the included manometer and pressure guide chart, they can be inflated at equal or different pressure levels.
→ This design is particularly useful in rectifying pelvic imbalances while at the same time offering greater stability and comfort.



Pelvic imbalance



Rebalancing: improves stability and position