SYST'AM

VISCOFLEX®

Viscoflex®

WITH MEMORY EFFECT

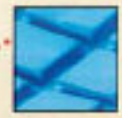
Developed by Systam in an effort to vastly improve patient positioning, the **Viscoflex** cushion uses cellular polymer foam with memory effect.

Its capacity for shape retention gives the **Viscoflex** cushion precise yet gentle molding of the contour of the seating area. This results in decreased transcutaneous pressure while increasing contact surface, both important measures of effective pressure sore prevention.

The memory effect also results in heightened patient stability, increased supply of oxygen-rich blood to the tissue and an overall reduction in friction.

Anatomically-correct shape

- Features raised lateral edges with a front-to-back incline
- Improves patient positioning, stability and comfort
- Increases surface contact area, reduces pressure points and minimizes disruption to soft tissue.



Grooved surface

- Increased aeration reduces negative effects of maceration
- Reduces surface friction.

Velcro® fasteners

- To improve patient security and avoid forward movement - which could result in serious injury - each cushion is fitted with two Velcro® fasteners.

"Sealant" effect achieved during molding

- Acts as a barrier to micro-organisms
- Create surface impermeability

Impermeable cover

- Impermeable to liquids yet allows the flow of air and water vapor
- Suitable for incontinent patients
- Reduces effects of maceration and improves cutaneous breathing

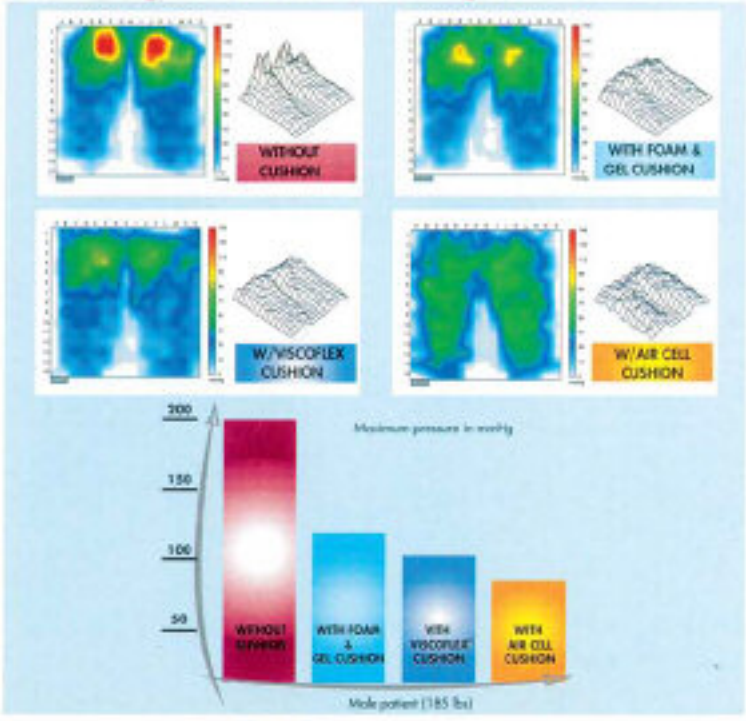
VISCOFLEX®

the only polymer with memory effect designed for pressure sore prevention

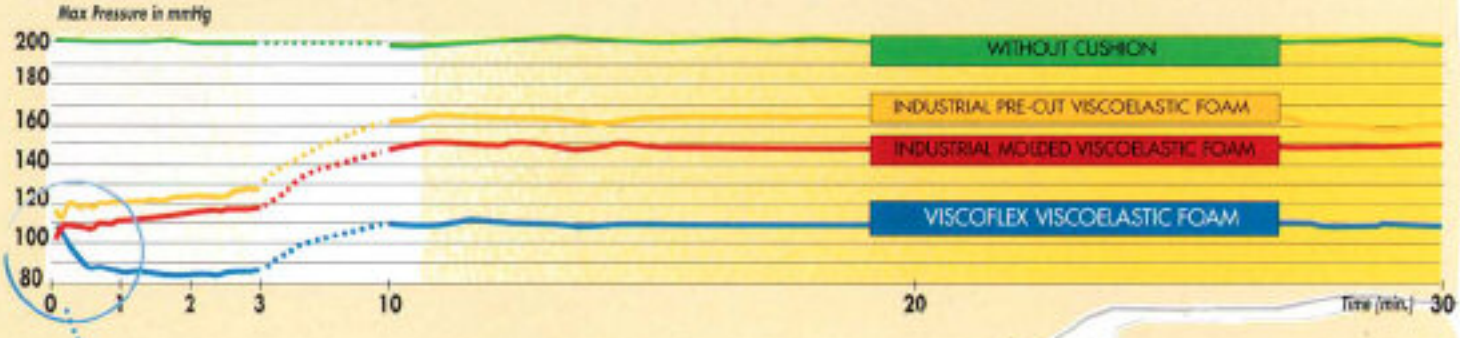
The result of advanced research into materials and chemical formulations, the Systam **Viscoflex** cushion was conceived specifically for sore prevention.

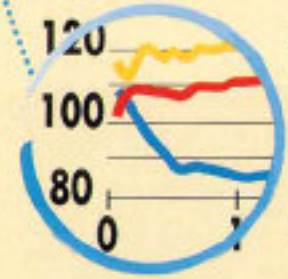
In developing the **Viscoflex** cushion, Systam's R&D department focused its research on two specific criterias:

- Low sensitivity to heat resulting in superior performance in a wider temperature range, allowing the cushion to maintain its compression ratio and other physical properties.
- This assures the patient that the **Viscoflex** cushion is neither too hard nor too soft under fluctuating temperatures, either of which might cause increased risks of pressure sores.
- A uniform distribution over time, avoiding "punching" effects and reducing maximum pressure for high risk pressure sore areas (see chart to the right).



MEASUREMENT AND EVOLUTION OF PRESSURE DISTRIBUTION OVER TIME



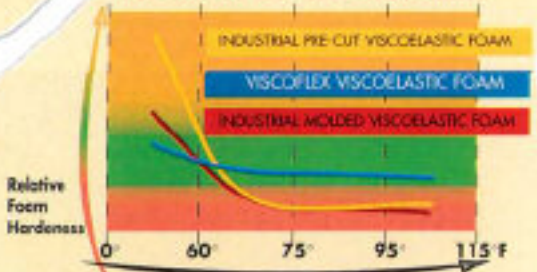


0 to 3 min. :
Initial compression of viscoelastic foam
Maximum pressure is insignificant as it has not yet stabilized

3 to 10 min. :
Viscoelastic foam compression stabilizes

After 10 min. :
Final compression level has been achieved
Maximum pressure becomes relevant at it has stabilized

SENSITIVITY TO HEAT OVER TIME



- Foam is too hard - max. pressure elevated
- Ultimate foam elasticity - ideal max. pressure
- Foam is too soft - max. pressure elevated

SYST'AM®

ISO9001

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