



# PORON<sup>®</sup> Performance Urethanes

## Algeos Material Selection Guide



excellence in rehab supply



## Imitation is the sincerest form of flattery...

...However, when you need the performance of PORON<sup>®</sup> Urethanes, imitation materials can put your applications at serious risk!

PORON<sup>®</sup> brand Urethanes are manufactured ONLY by Rogers Corporation (USA) and Rogers Inoac Corporation (Japan, PRC). PORON Urethanes are a trademarked brand name for materials that offer significant benefits in a wide variety of high performance applications... that's why they are the materials of choice for can't-fail applications.

When specifying PORON<sup>®</sup> Urethanes - ask for it by name.

A. Algeo Ltd are UK & Ireland representative for PORON<sup>®</sup> Urethanes in the medical and footwear manufacturing sectors. For further product advice, support and pricing, please contact us.



**excellence** in rehab supply

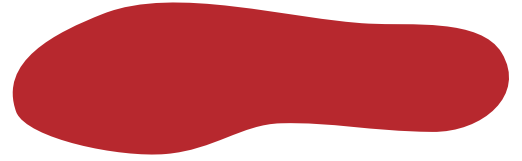
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## PORON 92 • Slow Memory • Ultra-Soft

- Ultra-soft, custom contouring material with controlled energy return
- PORON® 92 rebounds slowly when compressed resulting in a custom fit each use



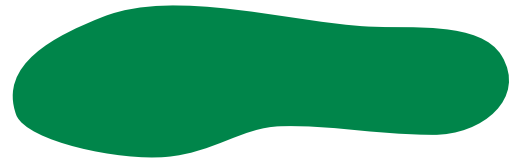
## PORON 94 • Slow Memory • Custom Contouring

- A softer, lighter PORON® with slower rebound, which allows for more even distribution of body weight over the foot's plantar surface
- Offers fuller, richer underfoot cushioning



## PORON 4400 Permafresh • Antimicrobial

- Performance grade, with antimicrobial protection
- PORON® Permafresh urethane doesn't just mask shoe odors, it stops the growth of odor-causing bacteria



## PORON 4000 Performance • Shock Absorbing

- High-energy return and excellent impact absorption for demanding applications
- Long lasting comfort



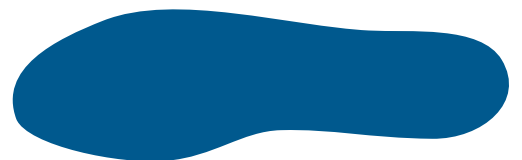
## PORON Dual Layer • Comfort & Cushioning

- Combines the durability and shock absorbing qualities of 4000, with the softness and comfort of 94
- Provides contouring comfort with impact absorption



## PORON Gel • Antimicrobial • Gel Comfort

- PORON® 4000 laminated to a sliver lined polymer gel sheeting for ultimate user comfort
- For appliance application where patient comfort and tolerance is a priority.



## PORON® *PERFORMANCE*

### FIRM (Footwear grade)

PORON® Performance FIRM materials, offer unique characteristics making them the ideal material selection for a variety of shoe applications.

Performance FIRM materials offer exceptional energy absorption, dimensional stability, and breathability while providing superior comfort for the life of the shoe.

This material has been engineered to provide maximum repeated shock absorption from minimum thickness.

#### Maintains Performance

- Long-term comfort and excellent compression-set resistance that will not break down with repeated use.
- Open-cell, breathable technology.

#### Versatile to Suit Your Designs

- Available in a variety of standard thicknesses and colour options.
- As part of a PORON Dual Layer package for a custom design.

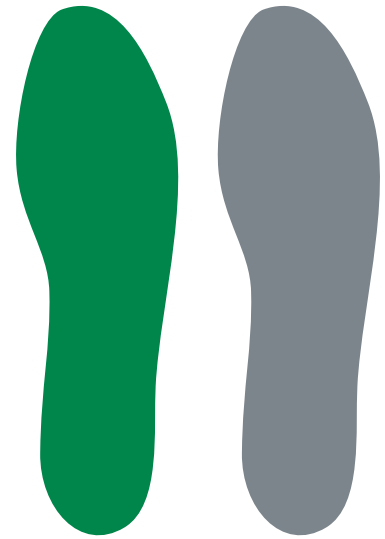
**Colours:** Grey & Green

**Sheet size:** 1370 x 1000mm



#### Contains Microban

Unlike standard anti-odour insoles, PORON doesn't just mask shoe odours, it prevents the growth of odour causing bacteria and fungus, including the fungus that causes athlete's foot.



**4400**  
**Dark Green**

**4000**  
**Grey**

Shore O 20



## PORON® *PERFORMANCE*

### 92 Slow Rebound - Very Soft

PORON® Slow Rebound series is a unique custom contouring material that will continue to rebound to its original state after each use.

Applications for PORON 92 Slow Rebound include total contact insoles, tongue and ankle cushioning along with AFO pads and low impact protective equipment. Whether you are looking for a comfort material to provide an instant “aaahhh” feeling PORON 92 Slow Rebound is the perfect solution.

#### Custom Fit and Support During Each Use

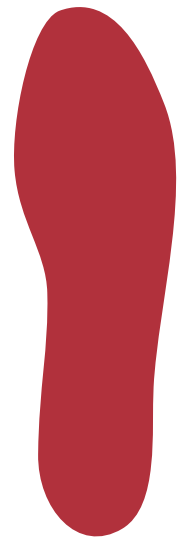
- A material that continually returns to its original shape after each use.
- Custom, total contact fit helps to support stability and balance.
- A good low impact absorption material that conforms to the body.

#### Maintains Performance

- Long-term comfort and excellent compression-set resistance that will not break down with repeated use. Use with top cover for additional longevity.
- Open-cell, breathable technology.

**Colour:** Red

**Sheet size:** 1370 x 1000mm



Shore O 12



## PORON® *PERFORMANCE*

### Gel - Combined Comfort & Cushioning

The ultimate combination! This innovative NEW material consists of PORON® laminated to a specially formulated polymer gel, to combine the ingenious qualities of both, for a superior material designed specifically for orthotics and insoles.

Polymer Gel is widely recognised as a material that mimics our own skin. It provides comfortable orthotics that minimise and redistribute peak plantar pressures. Silicone is also extremely effective in reducing shear (a force which is responsible for blistering of the skin).

#### Exceptional Cushioning

- Helps to evenly distribute pressure for added comfort.
- Does not deform - even after prolonged use.

#### Breathable and Flexible

- Patented technology combines two distinct PORON Materials into one without the use of costly adhesives or lamination.
- Hypo-allergenic - latex-free & silicone free.

#### Maintains Performance

- Long-term comfort and performance for the life of your product.
- Excellent compression-set resistance that will not break down with repeated use.

**Colour:** Blue as standard. Other variations available on request.

**Sheet size:** 406mm x 457mm



## PORON® *PERFORMANCE*

### 94 Slow Rebound - Soft

PORON® 94 Slow Rebound provides the ultimate in comfort. It is a unique custom contouring material that will continue to rebound to its original state after each use. This specially designed PORON Slow Rebound cushioning surpasses all expectations by continually adapting and offering consistent support and fit for your every curve during each use.

#### Contains Microban

Anti-microbial protection, stops the growth of odour causing bacteria.

#### Custom Fit and Support During Each Use

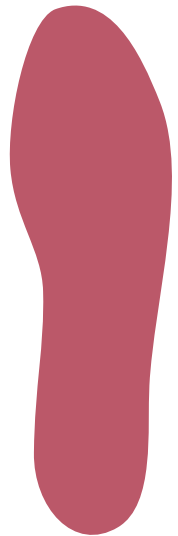
- A material that continually returns to its original shape after each use.
- Custom, total contact fit helps to support stability and balance.
- A good low impact absorption material that conforms to the body.

#### Maintains Performance

- Long-term comfort and excellent compression-set resistance that will not break down with repeated use.
- Open-cell, breathable technology.

**Colour:** Salmon

**Sheet size:** 1370 x 1000mm



Shore O 18



## PORON® *PERFORMANCE*

### Dual Layer - Combined Comfort & Cushioning

Patented technology offers a unique solution for long-lasting comfort and shock absorbency in one flexible material. With PORON® Dual Layer material you get the benefits of two distinct technologies in one:

- Custom contouring for a great fit and feel with added shock absorption.
- Get maximum comfort and support for the life of your product.

#### Exceptional Cushioning

- Continually rebounds to original form for custom comfort.
- Helps to evenly distribute pressure for added comfort.

#### Breathable and Flexible

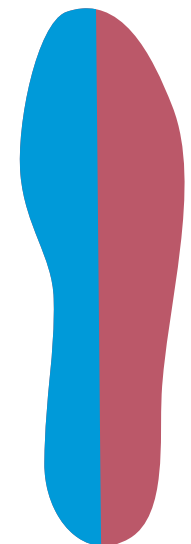
- Patented technology combines two distinct PORON Materials into one without the use of costly adhesives or lamination.
- Continuous open-cell structure provides breathability and maintains integrity of the foam.

#### Maintains Performance

- Long-term comfort and performance for the life of your product.
- Excellent compression-set resistance that will not break down with repeated use.

**Colour:** Salmon/Blue

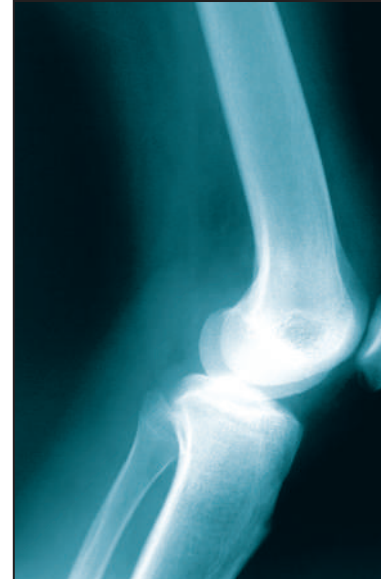
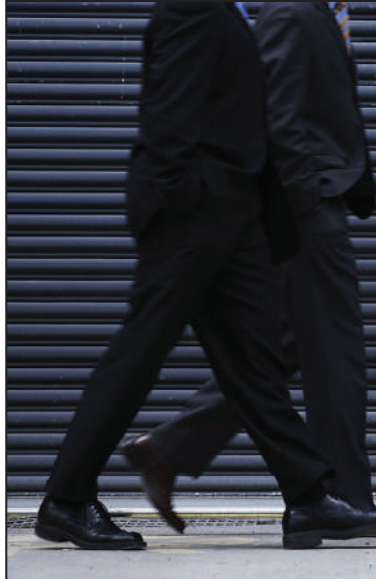
**Sheet size:** 1370 x 1000mm



Shore O 15







## Total solutions for footwear and orthopaedics

PORON<sup>®</sup> Urethanes are patented open cell, breathable materials. The open cells act like tiny springs absorbing impact and providing cushioning to the body. Rogers' PORON<sup>®</sup> Urethanes are designed to maintain their memory and continue to return to their original shape. The materials are resistant to moisture and other environmental conditions offering continued cushioning comfort in footwear, orthopaedic appliances, apparel and other applications.

### The highest degree of shock absorption

More shock absorption in the insole means less shock to feet and joints. No other insole materials offer more shock absorption than PORON<sup>®</sup> cellular urethanes.

In side-by-side drop weight tests, PORON<sup>®</sup> materials outperformed vinyl sponge, neoprene sponge, sponge rubber, latex foam and solid viscoelastic. Which is why PORON<sup>®</sup> materials offer the best cushion against impact.

### Maximum comfort and flexibility

PORON<sup>®</sup> urethanes are made without plasticizers, which means the insole won't shrink or become brittle and crack with age. PORON<sup>®</sup> urethane insoles retain "like-new" softness and flexibility, resisting the tendency of other insole materials to bottom out and take a permanent compression set. This results in maximum comfort for the life of the shoe.

### Breathable and anti-odour

Insoles made with PORON<sup>®</sup> urethane material form permeable layers that draw water vapour and perspiration away from the foot, helping to keep shoes and feet dry, while reducing foot odour.

### It all adds up to performance

Superior performance in just about every conceivable category, and resistance to abrasion, friction, tension, and stitch stress. PORON<sup>®</sup> urethanes are lightweight, smooth to the touch, and resist piping, for the greatest degree of shoe comfort, over the greatest length of time.

### A PORON insole for every kind of shoe

The PORON material product line offers a wide variety of colours, thicknesses, densities and surface textures to accommodate any kind of shoe for almost any activity - from the everyday wear associated with dress shoes, to the rigorous demands placed on shoes worn during high-impact sports and exercise.

If the precise PORON material doesn't already exist, one can be custom formulated for the needs of a specific insole, shoe, activity or manufacturer's physical and aesthetic requirements. Contact us for further details.



# Usage recommendations for footwear

The guide below has been developed to provide general recommendations to assist in selecting the appropriate Rogers' PORON Urethane material for footwear applications.

	Ankle Cushion	Tongue Padding	Arch Support	Insole	Footbed	Metatarsal Pad	Counter Cushion
Orthopaedic or Therapeutic	●	● ●	● ●	● ● ● ●	● ●	● ●	●
Men's Casual	●	● ●	● ●	● ● ●	● ●	● ●	●
Woman's Casual	●	● ●	● ●	● ● ●	● ●	● ●	●
Children's	●	● ●	● ●	● ● ●	● ●	●	●
Slippers				●	● ●		
Dance			● ●	●	● ●	● ●	
Woman's Dress			● ●	● ● ●	● ●	● ●	
Work Boot	●	● ●	● ●	● ● ●	● ●	● ●	●



**PORON 92**  
Slow Memory • Ultra-Soft



**PORON 94**  
Slow Memory • Custom Contouring



**PORON 4400 Permafresh**  
Antimicrobial



**PORON 4000 Performance**  
Shock Absorbing



**PORON Dual Layer**  
Comfort & Cushioning

## Manufacturers - Let them know what's inside!

Share the message that the competitive edge provided by PORON® Urethanes is part of your product. To order hangtags, state requirements with order.

The PORON® Urethane hangtags area available free of charge with large volume orders.

Essential 'value adding' addition to all manufactured items.



Also available, PORON® Urethane fabric tags can be produced to compliment your designs.