

# PORON<sup>®</sup> Slow Rebound Cushioning Series

**Contouring, memory foam-type material that delivers  
a custom fit during each use**

PORON<sup>®</sup> Slow Rebound Cushioning Series is a unique custom contouring material that will continue to rebound to its original state after each use. Available in four different product variations, you can choose which PORON Slow Rebound Material will provide the right amount of support, cushioning and memory return for your application. Unlike other memory foam materials that often take a set or offer users a one-time custom fit, the 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.

Some applications for PORON Slow Rebound Materials include total contact insoles, tongue and ankle cushioning along with various apparel and low impact protective equipment. Whether you are looking for that cushy comfort material to provide an instant "aaahhh" feeling or slightly stiff but conforming material for extra support, there is a right PORON Slow Rebound Material to help provide a 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.
- Open-cell, breathable technology.
- Available in a variety of thicknesses to meet your specific product design needs.
- Microban<sup>®</sup> antimicrobial protection to help prevent the growth of stain-and odor-causing bacteria, mold and mildew.

## Versatile to Suit Your Designs

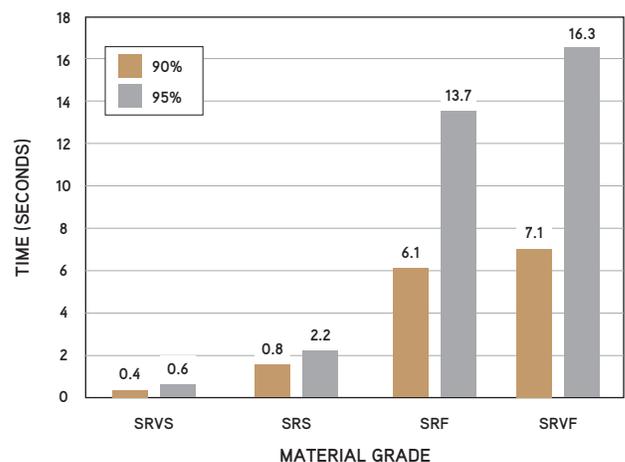
- Available in Very Soft, Soft, Firm and Very Firm product variations.
- As part of a PORON Dual Layer package for a custom design.



CONTOURING, MEMORY FOAM-TYPE MATERIAL  
UNIQUE CUSTOM FIT DURING EACH USE

APPLICATIONS: TOTAL CONTACT INSOLES – TONGUE AND ANKLE  
CUSHIONING – APPAREL AND LOW IMPACT PROTECTIVE EQUIPMENT – ETC.

## TIME TO RECOVERY TO 90% & 95% OF ORIGINAL COMPRESSION



*Additional PORON Slow Rebound Cushioning variations may also be available upon special order. Rogers recommends textile or leather covering for additional comfort and wear strength. Please contact your Rogers Customer Service Representative for more details.*

## PORON® Slow Rebound Cushioning Series - Typical Physical Properties

PROPERTY	TEST METHOD	PRODUCT			
		PORON SR Very Soft	PORON SR Soft	PORON SR Firm	PORON SR Very Firm
FORMULATION					
*DENSITY, lb. / ft <sup>3</sup>	ASTM D3574-95 Test A	15	15	15	15
Specific Gravity		0.24	0.24	0.24	0.24
Tolerance, %		± 10			
*STANDARD THICKNESS		See Product Availability			
Tolerance, %		± 10			
STANDARD COLOR		Red (84)	Salmon (55) Black (04)	Lambda Red (51)	Cayenne Red (42)
AIR PERMEABILITY	Gurley Densometer	Open Cell - Breathable			
*COMPRESSION SET, % max.	ASTM D3574 Test D @ 70°C (158°F)	10			
*COMPRESSION FORCE DEFLECTION, psi	0.2"/min. Strain Rate Force Measured @ 25% Deflection	0.3 – 3.5	1.5 – 6.5	3 – 18	4 – 22
kPa		2 – 24	10 – 45	21 – 97	48 – 124
HYDROLYSIS RESISTANCE	ASTM D3574 Test J / Test D after autoclaved 5 hrs @ 121°C (250°F)	Good Resistance			
Compression Set, % Max		5			
RESILIENCE, Shore Instrument Resiliometer, avg (Ball Rebound Tester)	ASTM D 2632-96, Vertical Rebound	4	4	7	8
WATER VAPOR TRANSFER, Typical g/m <sup>2</sup> /24hrs (g/ft <sup>2</sup> /24hrs)	Based on ASTM E96-00	> 400 (37)			
WATER ABSORPTION, % Wt Gain	Based on ASTM D570	< 30%			
ANTIMICROBIAL, Fungal Resistance	ASTM G21	Does not promote fungal growth			
SKIN CONTACT	Primary Skin Irritation – FHSA	Pass			
TEAR STRENGTH, pli, min.	ASTM D624 Die C	4	5	10	12
kN/m		0.7	0.9	1.7	2.1
*TENSILE ELONGATION, % min.	ASTM D3574 Test E	120	120	100	100
*TENSILE STRENGTH, psi, min.**	ASTM D3574 Test E	15	40	80	80
kPa		104	276	552	552
TEMPERATURE RESISTANCE, max	ASTM D746-98				
Recommended Constant Use		70°C (158°F)			
Recommended Intermittent Use		121°C (250°F)			
CHEMICAL RESISTANCE		PORON Urethanes are unaffected by mild organic acids and bases. They show modest swelling with oils and greases and other linear hydrocarbons. Strong polar solvents will greatly swell PORON Urethanes. In most cases, physical properties recover to a great extent as the solvents evaporate.			
ANTIMICROBIAL PROTECTION	AATCC TM90 JIS Z 2801 AATCC TM30(iii)	PASS			

Notes: 1. All metric conversions are approximate. 2. Additional technical services are available. 3. Information listed based on typical physical properties. 4. \*Standard testing property; Certificate of Compliance available per lot. 5. \*\*If used in tight radii, care should be used not to exceed tensile strength. We recommend to pair the material with a fabric or film to augment the tensile strength in such cases. Please contact a Rogers Customer Service Representative for additional information.