

**PORON Medical® Urethanes**

**PORON Medical® Urethanes – Slow Recovery – Custom Contouring**

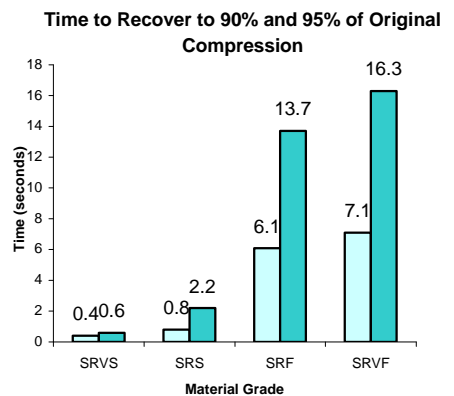
**PORON Medical®** Slow Recovery urethanes are unique custom contouring materials. They are available in four different grades for a variety of applications. These materials rebound slowly when compressed, which results in a custom fit or contour during each use. The material is designed to retain its memory and continue to return to its original shape when not in use.



- **Unique Custom Contouring – Controlled Energy Return**
- **Excellent Impact Absorption**
- **Supports Stability and Balance**
- **Long-term Comfort**
  - Compression Set Resistance
  - Open-Cell – Breathable
  - Microcellular Structure
  - Fungal Resistant

**PORON Medical** Slow Recovery materials are available in Soft, Very Soft, Firm and Very Firm in 3mm (1/8") and 6mm (1/4") thicknesses. Slow Recovery Very Soft is also available in 9.5mm (3/8") and 12.7mm (1/2").

Other combinations are also available upon special order.



**Continued on reverse**

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# PORON Medical® Urethanes – Slow Recovery – Custom Contouring

## Typical Physical Properties

PROPERTY	TEST METHOD	PRODUCT			
		PORON MSRVS	PORON MSRS	PORON MSRF	PORON MSRVF
Formulation		PORON MSRVS	PORON MSRS	PORON MSRF	PORON MSRVF
Standard Thickness Tolerance, %		See Product Availability ± 10			
Standard Width, mm (inch)		1372 (54)			
Standard Color (Code)		Sea Mist (73)	Light Jade (71)	Patina (79)	Dark Jade (80)
Density, kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	ASTM D 3574	240 (15)			
Specific Gravity		0.240			
Tolerance, %		± 10			
Compression Set, % max.	ASTM D 3574 @ 70°C (158°F)	10			
Compression Force Deflection, kPa (psi)	ASTM D 3574 @ 25% Deflection	2 - 24 (0.3 - 3.5)	10 - 45 (1.5 - 6.5)	21 - 124 (3 - 18)	28 - 152 (4 - 22)
Hardness, Durometer	Shore "OO"	26	53	73	82
Resilience, Shore Instrument Resiliometer, Typical (Ball Rebound Tester)	ASTM D 2632, Vertical Rebound	4	4	7	8
Tear Strength, kN/m (pli), min.	ASTM D 624	0.7 (4)	0.9 (5)	1.7 (10)	2.1 (12)
Elongation, % min.	ASTM D 3574	120		100	
Tensile Strength, kPa (psi), min.	ASTM D 3574	104 (15)	276 (40)	552 (80)	690 (100)
Antimicrobial, Fungal Resistance	ASTM G 21	Does not promote fungal growth.			
Surface Contact - Medical Device Primary Skin Irritation	ISO10993-10, 2010	Pass			
Air Permeability	Gurley Porosity Meter	Open-Cell – Breathable			
Water Vapor Transfer, Typical g/m <sup>2</sup> /24hrs (g/ft <sup>2</sup> /24hrs)	Based on ASTM E 96	400 (37)			
Water Absorption, Typical % Wt Gain	Based on ASTM D 570	< 30			
Chemical Resistance		PORON® Urethanes are unaffected by mild organic acids and bases. They show modest swelling with oils and greases and other linear hydrocarbons. Strongly polar solvents will greatly swell PORON Urethanes. In most cases, physical properties recover to a great extent as the solvents evaporate.			
Temperature Resistance, max. Recommended Constant Use	SAE J-2236	90°C (194°F)		70°C (158°F)	
Hydrolysis Resistance, Tensile Strength, kPa (psi) Compression Set, % max.	ASTM D 3574 Test J / Test D after autoclaved 5 hrs @ 121°C (250°F)	Good Resistance, 5			

\* ISO 10993 certifications are specific to colors and density. Consult ISO 10993-1:2003(E) Guidelines for further detail.

### Notes:

1. Typical values are a representation of an average value for the population of the property. For specification values, contact Rogers Corporation.
2. All metric conversions are approximate.
3. Additional technical services are available.



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