

# FEEL THE INTENSITY OF THE SPORT NOT THE IMPACT

PORON® XRD™ Extreme Impact Protection material is a breakthrough technology that has been tested to absorb up to 90 percent of energy when impacted at high strain rates.\* The extreme impact protection developed by the Rogers Corporation High Performance Foams Research and Development Team is ideal for use in sporting goods, outdoor industry products and other applications where protection, comfort, and consistent performance are required.

PORON XRD material gives athletes the power to concentrate on the next play, not be inhibited by the last hit. It is an ideal added protection material for the shoulders, elbows, hips, knees, shins, and other common impact injury areas for athletes and outdoor adventurers.



## PERFORMANCE ADVANTAGE

- Absorbs and instantly dissipates up to 90 percent of energy when impacted at high strain rates,\* providing superior impact absorption.
- Reliable protection that's there when you need it.
- Consistent repeated impact absorption for dependable performance throughout the life of the product.

## WEARABLE PROTECTION ADVANTAGE

- The PORON XRD design difference offers a thin and flexible alternative to traditional padding, so your customers can say good bye to uncomfortable, bulky protection.
- Antimicrobial protection to help prevent the growth of bacteria that causes stains, odors and product deterioration.
- When things heat up, keeping cool is crucial. Breathable PORON XRD technology fits like a second skin, ensuring ease of motion and air flow.
- Contouring, soft and flexible to the touch, PORON XRD material offers the wearer a customized fit.

## DESIGN ADVANTAGE

- Lightweight and low profile material technology that adds a powerful advantage to any product with virtually no trade offs in design.
- Available in a wide range of weights and thicknesses to meet your unique design requirements.
- A material that helps enhance your current or next generation designs.

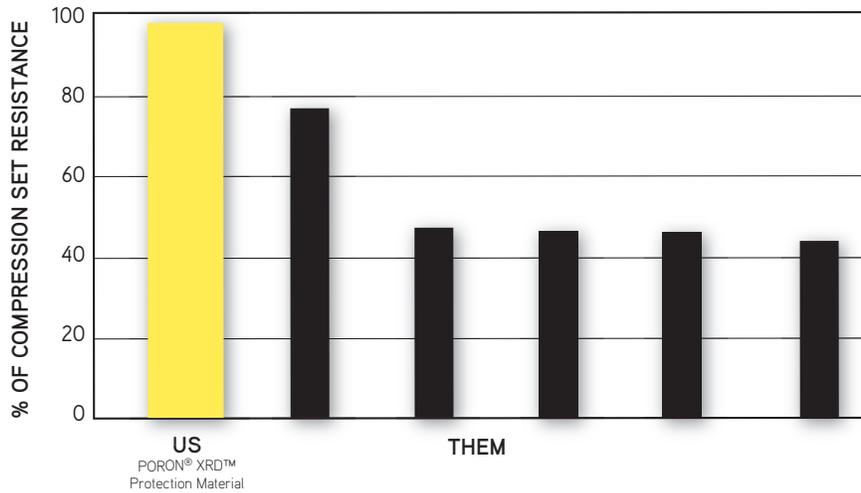
## TECHNOLOGY INSIDE

- Specially designed to utilize the natural behavior of polymers to its advantage.
- PORON XRD material gets its softness and flexibility when at rest while above the glass transition temperature (Tg) of the urethane molecules. When stressed at a high rate or impacted quickly, the Tg of the material reaches the point when the urethane molecules momentarily "freeze"—like water freezing into ice. Thus, the material firms to form a comfortable protective shell that shields the body from impact.
- Maintains all the standard PORON cushioning properties that you've come to rely on: open cell-breathable technology, excellent compression-set resistance, antifungal and does not contain latex, PVCs VOC, or heavy metals.



PORON® XRD™ Protection - A game changing material for a variety of applications

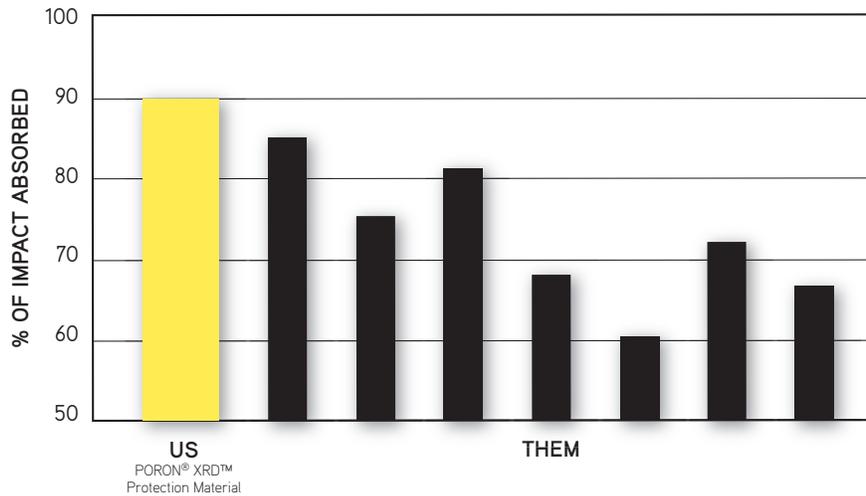
**MAINTAINS PERFORMANCE  
FROM FIRST TO LAST HIT**



**CHART DESCRIPTION**

PORON XRD Material has superior compression set resistance, compared to the competition, maintaining its shape and performance attributes for the life of the product.

**MAXIMUM PROTECTION THAT  
BEATS THE COMPETITION**



**CHART DESCRIPTION**

PORON XRD Material has been tested to absorb up to 90% of the energy from impact, surpassing performance of current impact absorbing materials in various applications.

In many cases, PORON XRD Material is thinner, more flexible and less dense than competitive materials, thus helping to not weigh down the athlete or hinder performance!

\*ASTM F1614-C. Flat Surface Impact Test, Single Drop, 8.5 kg mass, 1.0 m/s Velocity.  
FOR ADDITIONAL TESTING INFORMATION PLEASE VISIT [WWW.PORONXRD.COM](http://WWW.PORONXRD.COM)