PORON® ReSource Performance Cushioning

Take Steps Toward Living Greener - Without Compromising Comfort

Rogers' commitment to innovation and awareness towards more sustainable materials and processes has led to the development of PORON® ReSource Cushioning, now developed using a soy polyol which replaces over 45% of the petroleum based polyol typically used in urethane foam manufacturing. The first generation PORON ReSource Material contained 20% renewable/recycled content and the Rogers R&D team works continuously towards innovating future PORON ReSource generations with more sustainable content.

Compared to other renewable cushioning materials, the new generation PORON ReSource Cushioning not only eliminates more petro-based polyol from its raw materials, but also maintains all the superior cushioning and performance benefits that you have come to rely on with all PORON Materials. In addition, Rogers has teamed up with a renowned US soy polyol supplier who shares their commitment to quality, human and environmental heath and safety and sustainable manufacturing processes. Rogers' supplier works in partnership with the Nature Conservancy (TNC) to ensure a balance of economic activities with conservation in the soybean farming regions. Careful steps are taken to ensure that zero deforestation is occurring in these areas.

The search for more sustainable material and processing advancements will continue at Rogers' R&D headquarters, where environmental stewardship is a cornerstone of global business operations. So have confidence that with each step you take in PORON ReSource Cushioning, Rogers is taking steps to help your environmental footprint without sacrificing quality and performance.

A Greener Cushioning Material

- Soy-based polyol replaces over 45% petroleum based polyol typically found in urethane foams.
- Offers highest percentage of petro-based polyol replacement.
- Backed by a trusted US supplier who enforces strict regulations on soybean farming.
- Naturally resistant to fungal growth.
- Does not contain latex, PVCs, VOCs or heavy metals.

Maintains Performance & Comfort

- Finally, a durable and reliable green cushioning material that provides long-lasting comfort for the life of your product.
- Excellent compression-set resistance that will continue to perform and not breakdown with repeated use.
- Open-cell, breathable technology.

A Natural Fit

- Available in a variety of densities and thicknesses to meet your specific product design needs.
- A simple way to become more environmentally friendly without changing manufacturing processes or designs.

OVER 45 PERCENT LESS PETRO-BASED POLYOL

DURABLE, SHOCK ABSORBING MATERIAL

APPLICATIONS: OUTDOOR AND ATHLETIC INSOLES – SPORTS EQUIPMENT PADDING – ETC

Additional PORON ReSource variations may 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.

Rogers' Environmental Commitment

- Dedicated to developing cutting edge processing and materials advancement to push standards for sustainable products.
- PORON manufacturing facility in Woodstock, CT has achieved OSHA's "Star" VPP certification of safety excellence.
- Implementation of the Environmental Management System (ISO 14001:2004) to achieve environmental excellence at all Rogers' manufacturing operations worldwide.
- Other ongoing sustainable activities and standards at Rogers Corporation can be found at: www.rogerscorp.com/environment

PORON® ReSource Cushioning - Preliminary Physical Properties

PROPERTY	TEST METHOD	PRODUCT		
FORMULATION		**PORON ReSource Performance (RSF45)**		
SUSTAINABLE/ NATURAL BASED CONTENT (% of standard polyol replaced)	less petroleum-based polyol	45.96		
***DENSITY**, lb. / ft3	ASTM D 3574-95 Test A	15	17	20
Specific Gravity		0.24	0.27	0.32
Tolerance, %		± 10		
***STANDARD THICKNESS**		See Product Availability		
Tolerance, %		± 10		
STANDARD COLOR		Fern (91)		
AIR PERMEABILITY	Gurley Densometer	Open Cell - Breathable		
***COMPRESSION SET**, % max.	ASTM D 3574 Test D @ 158°F (70°C)	10		
***COMPRESSION FORCE DEFLECTION,** psi	0.2"/min. Strain Rate Force Measured @ 25% Deflection	4-16	6-20	8-25
kPa		27 - 110	42 - 138	55-172
RESILIENCE, Shore Instrument Resiliometer, avg (Ball Rebound Tester)	ASTM D 2632-96, Vertical Rebound	8	8	8
TEAR STRENGTH, pli, min.	ASTM D 624 Die C	5	5	5
kN/m		0.9	0.9	0.9
***TENSILE ELONGATION**, % min.	ASTM D 3574 Test E	80	85	90
***TENSILE STRENGTH**, psi min.	ASTM D 3574 Test E	70	90	110
kPa		483	621	758

Notes: 1. All metric conversions are approximate. 2. Additional technical services are available 3. *Standard testing property; Certificate of Compliance available per lot.

PRELIMINARY DEVELOPMENT DATA
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