



Sell Sheet

## PORON® Dura-Shape® Polyurethane

### Improve Accuracy and Performance with the PORON® Dura-Shape® Option

PORON polyurethanes are available with a unique Dura-Shape option - a layer of polyester film sealed between two layers of PORON foam.

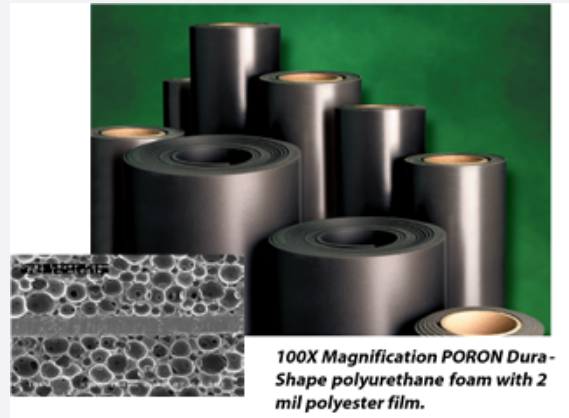
The PORON Dura-Shape option can enhance product reliability and longevity for gasketing and sealing applications, while facilitating faster, more accurate die-cutting.

### Improve Die-Cutting Accuracy and Long-Term Shape Retention

The polyester layer adds dimensional stability to the PORON Dura-Shape material. As a result, die-cut parts have virtually no shrinkage. Once cut, gaskets and other parts retain their shape over the long term. This benefits manufacturers by increasing the reliability and longevity of their products.

### Increase Processing Speed and Lower Costs

With enhanced dimensional stability in the x-y direction and tougher tear strength, the PORON Dura-Shape option may result in increased yields from high-speed die-cutting. The polyester film layer inhibits the foam from stretching or shrinking, enabling faster processing and more accurate gasket shapes.



### The PORON Dura-Shape Difference

PORON materials are available with a tough polyester film securely bonded between two layers of foam. This “sandwich” technology results in a foam product with:

- Increased dimensional stability - no shrinkage or stretching
- Tougher tear strength
- Reliable, long-term shape retention

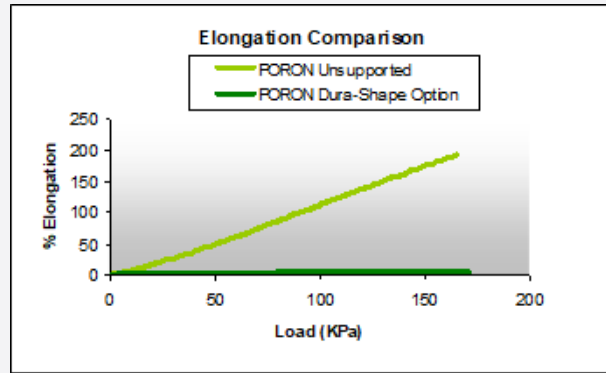
The Dura-Shape Option adds advantages to these enduring PORON polyurethane benefits:

- Durability and resiliency under pressure
- Absorbs shock and vibration energy
- Functional performance across a wide range of temperatures
- Resistance to chemicals

## PORON® Dura-Shape® Polyurethane, continued

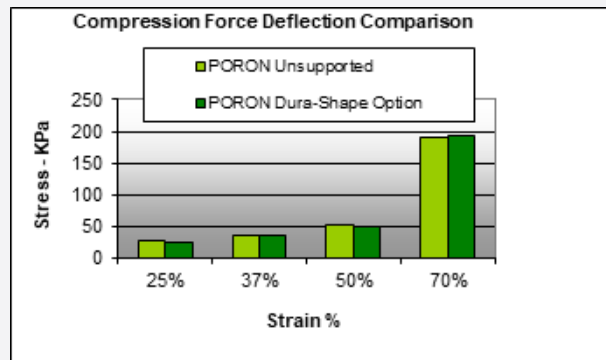
### Superior Shape Retention

The graph to the right shows elongation results for PORON 4790-92 with and without the Dura-Shape material option. In dimensional stability tests, PORON unsupported foam demonstrated elasticity while PORON Dura-Shape material exhibited no elongation.



### Excellent Compressibility for Sealing Performance

Compression Force Deflection (CFD) tests for PORON 4701-30 show that the PORON Dura-Shape material has the same compressibility characteristics as PORON unsupported materials. The high degree of compressibility for the Dura-Shape material creates an additional option in gasket and sealing designs with PORON foams.



### Product Offerings

Standard PORON Dura-Shape materials are listed in the chart to the right. For non-standard thicknesses refer to the Product Capabilities noted. For additional information contact your Sales Engineer or Rogers Customer Service representative.

		DURA-SHAPE® PRODUCT											
THICKNESS		4790-92, PY2MID		4701-30, PY2MID		4701-40, PY2MID		4701-41, PY2MID		4701-50, PY2MID			
IN	MM	15 pcf	20 pcf	15 pcf	20 pcf	15 pcf	20 pcf	12 pcf	15 pcf	20 pcf	15 pcf	20 pcf	
0.093	2.36	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.095	2.41	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.120	3.05	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.125	3.18	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.155	3.94	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.188	4.78	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.250	6.35	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.375	9.53	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.425	10.80	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
0.500	12.70	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
TABLE LEGEND		▲ Non-Standard Product w/ 2mil PET in the Middle ■ Product Not Available											

For sample availability or technical support, contact the Rogers Solutions Center at: [solutions@rogerscorp.com](mailto:solutions@rogerscorp.com)



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