

**PORON® Urethane Foams**

*Applications Note*

*PORON® Urethane Foams offer a broad range of design solutions for gasketing, sealing, and energy absorption. These materials are specified in numerous applications within the Communications industry where function and quality are critical.*

PORON urethanes, flexible, high density, microcellular products, offer design engineers many outstanding features. PORON products maintain excellent resistance to compression set (collapse), exhibit high resiliency, good vibration damping and impact absorption. Parts made from PORON urethanes continue to perform after constant and repeated deflection. Components won't loosen, and gasketing integrity will be maintained.

Through a unique manufacturing process, PORON cellular urethanes can be cast to tight tolerances and in precise variations of firmness and internal strength. These materials are supplied in thickness from 0.012" to 0.500" (0.30mm to 12.7mm) and are easily die cut and fabricated to shape. Many PORON urethanes are conformable and thin for space constrained applications.

To meet industry requirements, PORON urethanes are available in a variety of different thicknesses with a wide range of firmness characteristics. The unique formulation of the standard materials reduces outgassing. Many PORON urethanes meet the Silicon Valley Criteria which is <1% Total Mass Loss (TML) and <0.1% Collectable Volatile Condensable Materials (CVCM). PORON cellular urethane standard products meet environmental standards such as **UL JMST2** gasketing requirements (which includes UL 50 & UL 508) and **UL 94HBF** flammability rating down to 0.062" (1.57mm) thickness. In addition, these materials also meet **AMS 3568** Corrosion Resistance, **GM 4486P** Ozone Resistance and **ASTM G53** UV Resistance requirements.

With the addition of flexible or other shielding, PORON urethanes are suitable for EMI/RFI applications. This is just one of the many value-added services available through the PORON Preferred Converter fabrication network.



EMI/RFI Shielding with PORON Urethanes\*



Portable Communications Gaskets



Shock Absorbing Mounts



Bumper Gaskets for Remote Control

\*EMI/RFI shielding photo courtesy of Boyd Corporation

## *Communications/Computer Applications*

- Acoustic Seals
- Air Filter Gaskets
- Battery Connector Pads
- Battery Shock Absorbing Mounts
- Elastomeric Interconnects & Spacers
- Electronic Packaging
- Electronic Test Fixture Gaskets
- Enclosure Gaskets
- Environmental Seals with Delicate Optics
- Impact Cushions
- LCD Lens Gasket
- LCD Mounts
- Light Containment Seals
- EMI/RFI Shielding Gaskets
- Speaker Gaskets
- Switch Spacers
- Thermal Management
- Vibration Isolators for PC Boards



For more information on PORON cellular urethanes and other Rogers products specified for communications applications, please visit our website at [www.rogerscorporation.com](http://www.rogerscorporation.com) or contact your local Rogers Sales Engineer. PORON cellular urethanes are available through a worldwide network of knowledgeable Preferred Converters.

*The information contained in this bulletin is intended to assist you in designing with Rogers PORON Urethanes. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this bulletin will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers PORON Urethanes for each application.*



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