



High Performance Foams

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INDUSTRIAL SALES BULLETIN

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ROGERS' SPECIALTY MATERIALS FOR MEDICAL DEVICES

BISCO® Industrial Silicone Foams, PORON® Industrial Urethane Foams, and Rogers Polyolefin Foams offer a broad range of design solutions for gasketing, sealing and energy absorption. These materials are specified in numerous applications within the medical device industry where function and quality are critical.



BISCO® Silicone Foams have outstanding resiliency. They have “memory” in that they always return to their original state after prolonged compression, and maintain their physical properties. The BISCO materials are extremely clean and tolerant of environmental extremes. They maintain their dimensional stability even when exposed to ultraviolet light, radiation, elevated temperature, or high humidity, such as in e-beam, gamma and autoclave sterilization environments. In addition, BISCO EC-2000 Conductive Silicones, a new inherently conductive material, can be easily die-cut to create EMI/RFI shields. In continuous rolls, BISCO Silicone Foams are available in open-cell or closed-cell options.

PORON® Urethane Foams are flexible, high density, microcellular materials. PORON materials maintain excellent resistance to compression set and exhibit good vibration damping and impact absorption. Even after repeated deflection, components made from PORON materials won't loosen and gasket integrity will be maintained. These materials can be cast to tight tolerances and in precise variations of firmness and internal strength. Formulations range from conformable to semi-rigid and are available in thin cross-sections for space-constrained uses.

Rogers Polyolefin Foams are soft, flexible, lightweight and easily formable. Closed celled in nature, these materials are offered in roll or bun form in a wide range of thicknesses, densities and vibrant colors. They provide the look and feel of rubber, but fabricate with the ease of polyethylene. They possess excellent tensile and elongation properties and can be tailored to

meet a variety of mechanical and physical property requirements for a wide range of applications. Polyolefin foams are thermoformable and are easily heat-laminated to other materials. These materials are ideal for medical tapes as well as for disposable medical device applications.

Rogers High Performance Foam products are available in continuous rolls and consistent thicknesses. This makes them easy to use, easy to fabricate, and offers OEMs confidence in product quality.

Medical Device Applications

- Test equipment and microchip sensor cushions
- Handheld instrumentation LCD gaskets
- Transparent lab equipment membranes
- Valve diaphragms
- EKG grounding pads
- Clean room gaskets and seals
- EMI/RFI shielding gasketing for diagnostic, analytical and lab machinery

For more information on any of the Rogers products specified for medical applications, please visit our Web site at www.rogerscorporation.com or contact the Rogers Solution Center at 800.755.6766.

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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