

PORON® Urethanes for Gasketing and Sealing

PORON® Urethanes, developed and manufactured by Rogers Corporation, are premium open-cell microcellular polyurethane foams commonly used in the automotive, electronics, and medical industries. PORON® products offer a broad range of design solutions for gasketing, sealing, cushioning, gap filling, vibration isolation, sound damping, and energy absorption applications. This material features excellent resistance to compression set, stress relaxation, and outgassing. PORON® urethanes are die-cut by Marian into thousands of flexible component parts for hundreds of customers.

PORON® Characteristics

- **Excellent compression set resistance** – durable, long-term performance for gasketing, sealing, and cushioning
- **Low-outgassing and non-fogging** – no plasticizers to migrate and non-corrosive to metal
- **High energy absorption** – High resiliency, good vibration damping/ isolation and impact attenuation
- **Broad temperature range** from -40°F to 194°F (-40°C to 90°C)
- **Flame retardant** – All product versions meet UL94 HBF and MVSS 302 flammability requirements and some meet V-0 requirements
- **Good chemical resistance**
- **Broad range of thicknesses** from 0.012 in. to 0.500 in. (0.43 mm to 12.7 mm)
- **Wide range of firmness and density**
- **Die-cuts cleanly to tight tolerances**
- **Marian is able to laminate** to adhesive, film, foil, fabric, etc...
- **Optional tacky surface** product construction

Applications

- Gasketing
- Energy Absorption
- Gap Filling
- Sealing
- Vibration/Sound Damping
- Padding
- Cushioning
- Vibration Isolation
- Spacing

Markets

- Electronics
- Appliance
- Batteries
- Automotive
- Electric Vehicle (EV)
- Aerospace
- Medical Device
- HVAC
- LED Lighting



The Marian Advantage

Marian is recognized as a Rogers Corporation Preferred Converter and serves as an influential member on their decision-making Preferred Converter Advisory Council. As one of the world's largest converters of PORON® urethanes, Marian's capabilities include custom die cutting, laser cutting, water jet cutting, laminating, slitting, and rapid prototyping. With Marian's varying capabilities and value-add services, PORON® urethanes can be die-cut into dynamic parts with intricate designs and very thin walls. Value is added by manufacturing parts with extended liners, pull-tabs, and more, all while consistently maintaining tight dimensional tolerances.