

SUR-SEAL®

ADVANCED MATERIAL SOLUTIONS

LED

DIE-CUT AND CONVERTED FLEXIBLE COMPONENTS FOR LED LIGHTING.

SUR-SEAL has the right design and assembly solutions to help solve all your LED manufacturing needs.



"The LED marketplace continues to evolve at a pace that requires constant innovation while reducing costs to the end user. SUR-SEAL has been a key partner for us in finding the right technology solutions at a competitive price while maintaining high quality and on-time delivery."

– Engineering Manager, major US-based LED lighting manufacturer

At SUR-SEAL, we provide custom solutions that reduce assembly costs, increase design flexibility and extend product longevity while introducing the latest technologies to support the LED marketplace.

WHETHER YOU NEED

- ▶ Thermal management
- ▶ Environmental sealing solution to support IP ratings
- ▶ Light diffusion, reflection & blocking
- ▶ Enclosure ratings
- ▶ Venting / pressure equalization
- ▶ Adhesion / structural attachment, permanent & temporary bonding & joining
- ▶ Cushioning & vibration management
- ▶ Heat & flame barrier
- ▶ Electrical insulation
- ▶ Screwless assemble / assembly solutions
- ▶ Light blocks
- ▶ Recloseable fasteners
- ▶ Edge tape

WE OFFER

- ▶ Precision slitting
- ▶ Rotary and flatbed die-cutting
- ▶ Rapid laser prototyping
- ▶ Flat-bed die-cutting
- ▶ Spooling
- ▶ Laser cutting
- ▶ Laminating
- ▶ Assembly & kitting
- ▶ Automated placement & assembly support



SUR-SEAL®

WITH THE FOLLOWING

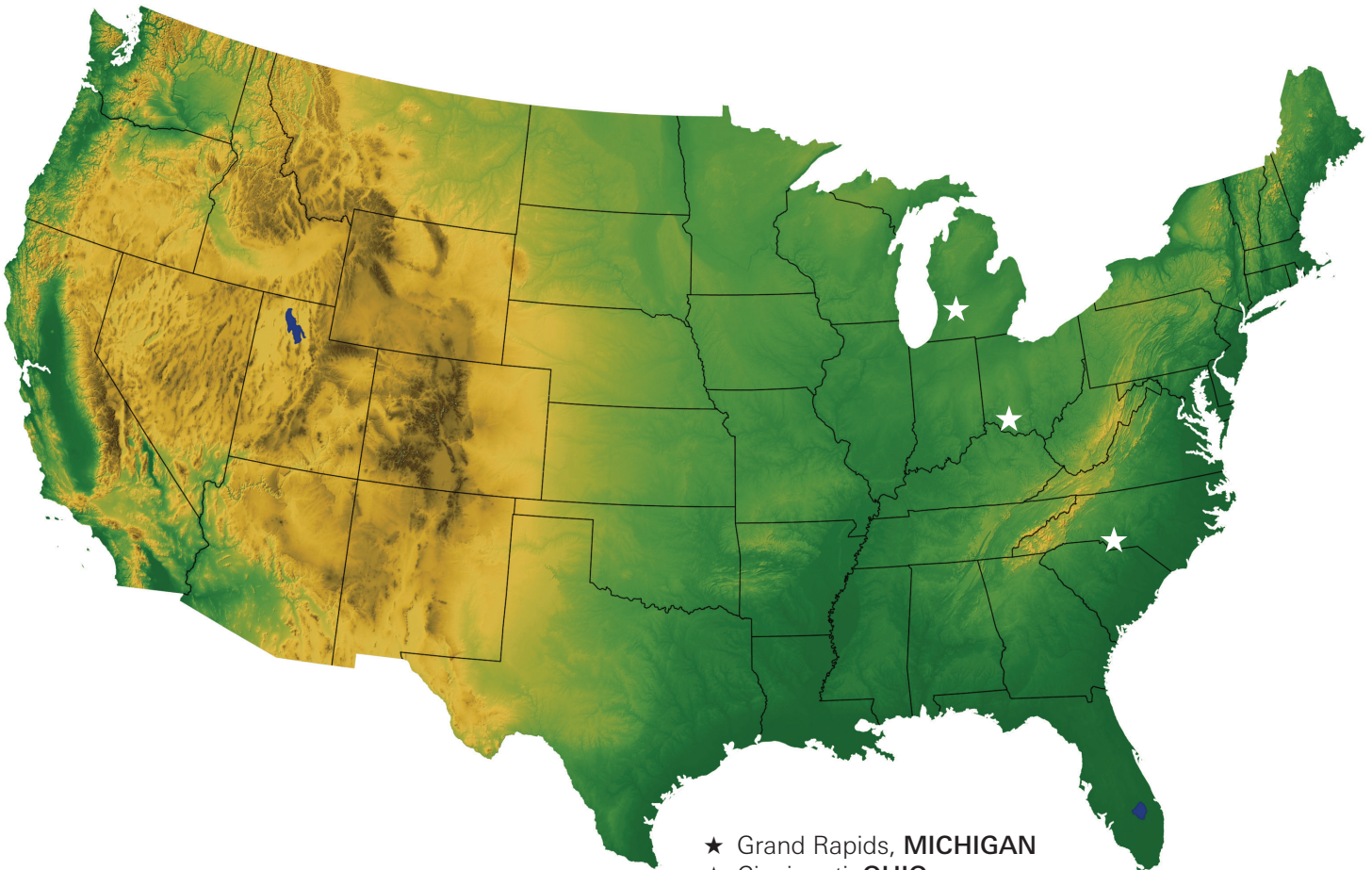
- ▶ 3M™ VHB™
- ▶ 3M™ flame barrier material
- ▶ PORON™ urethane and BISCO™ high temperature silicone foams
- ▶ Light-diffusing & reflecting films
- ▶ HeatSORB™ Thermal Management Material
- ▶ PTFE venting materials
- ▶ Double- and single-coated tapes and pressure-sensitive adhesives
- ▶ Foams for gaskets and seals
- ▶ Films and thin plastics
- ▶ Sub-surface screen-printed acrylic and polycarbonate
- ▶ Conductive inks
- ▶ Indium Tin Oxide (ITO) coated substrates
- ▶ Materials IP- and NEMA-rated enclosures
- ▶ UL94 certified materials
- ▶ Thermally conductive adhesives & tapes, gap fillers, coated fabrics & phase change



LED SOLUTIONS



SUR-SEAL's consultative approach provides you solutions designed to reduce labor costs whenever possible, while our QA certifications and QC system ensure the highest quality product delivery.



- ★ Grand Rapids, **MICHIGAN**
- ★ Cincinnati, **OHIO**
- ★ Charlotte, **NORTH CAROLINA**

Three locations providing advanced engineering solutions for your specific advantage.



**IATF 16949:2016
and
ISO 13485:2016
certified**



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513-574-8500 ■ www.sur-seal.com