

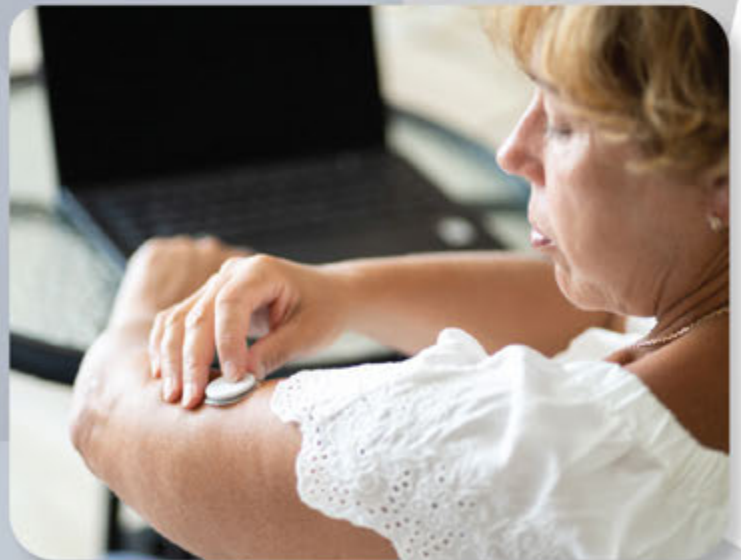
## Medical Devices

Discover our full range of solutions for medical devices from brands you trust.



Achieving the desired safety and effectiveness in medical devices requires attention to the details, such as cushioning, attachment and stick-to-skin adhesion.

Our customizing and converting solutions utilize flexible materials and adhesives to deliver superior results.



# : Expertly Designed Components for Medical Devices

## Protective Cushioning for Sensors and Delicate Components

Thin-film transistors and glass components found in many medical devices demand cutting-edge protection from the impact of body movement, daily use and accidental dropping. Sensor gasketing materials, buffers and casting barriers provide the shock absorption and cushioning to ensure the device's durability and functionality.

### DESIGN REQUIREMENTS

- ✓ Shock absorption and impact protection
- ✓ Long-term durability and reliable performance
- ✓ Limited extractables / leaching
- ✓ Inertness
- ✓ Compressibility
- ✓ Water sealing
- ✓ Sterilizable

### PRODUCT SOLUTIONS

- Rogers BISCO® MS Silicone Foam
- Rogers BISCO® MS Silicone Bun
- Rogers BISCO® MS Silicone Solid
- Rogers PORON® Polyurethane Foams

## Resilient Barriers for In Vitro Diagnostics

The sealing components for consumable PCR kits demand a high level of heat resistance over thousands of thermocycles. The right sealing material should also hold an impermeable barrier against liquids while offering broad chemical resistance.

### DESIGN REQUIREMENTS

- ✓ Wide temperature range: -55 to 200°C
- ✓ Minimal water absorption
- ✓ Best-in-class CSet
- ✓ Excellent chemical, UV and ozone resistance

### PRODUCT SOLUTIONS

- BISCO® Silicone Solids
- BISCO® Silicone Foams







## Reliable, Accurate Data for Continuous Health Monitoring

A new generation of wearable medical technologies keeps health providers connected with their patients through real-time charting and progress reports. The rapid results that point-of-care testing (POCT) devices offer is a crucial aspect of this trend. These tests use microfluidic devices that capture and immobilize biological samples, which means utmost precision in material selection and manufacturing processes are mission-critical to ensure a reliable, accurate performance from the finished device.

### PRODUCT SOLUTIONS

- 3M™ Microfluidic Diagnostic Tape, 9795R, 9795T, 9972A & 9982
- 3M™ Hydrophilic Film, 9938
- 3M™ Diagnostic Microfluidic Hydrophilic Film, 9901PBo
- 3M™ Medical Assembly Adhesive Transfer Tape, MA467MP, MA9471LE, MA9472LE

## Precision for Respiratory Devices

Bedside respiratory devices, like ventilators or CPAP machines, are frequently prescribed by doctors to assist patients with breathing and getting a restful night of sleep. This requires close attention to the design of the outflows in these devices, to manage high airflow and high water entry pressure and reduce the risk of contamination.

### DESIGN CONSIDERATIONS

- ✓ Ease of repetitive cleaning and disinfection
- ✓ Release pressure in devices without liquid penetration
- ✓ Sound and vibration absorption to maintain quiet performance for sleeping
- ✓ Open-cell structure allowing for airflow
- ✓ Biocompatible air path with low levels of off-gassing
- ✓ Chemical resistance to cleaners, detergents and ozone

### PRODUCT SOLUTIONS

- DeWAL® Specialty Venting Laminates
- Rogers BISCO® MS Silicone Foam
- Rogers BISCO® MS Silicone Bun
- Rogers BISCO® MS Silicone Solid



### DESIGN CONSIDERATIONS

- ✓ Length of time device will be worn
- ✓ End user's activity level
- ✓ Biocompatibility
- ✓ Application and removal
- ✓ Compatibility of materials

### PRODUCT SOLUTIONS

- 3M™ Medical Silicone Tape, 2480 & 2477P
- 3M™ Medical Tape 4077, 4578, 9833
- 3M™ Medical Foam Tape 1773

## Safe, Comfortable Adhesives for Wearable Devices

The importance of choosing the most comfortable, effective adhesive for a medical device cannot be understated. Knowledge of skin securement materials, adhesion consistency and other factors are essential. When you consider the unique medical needs of patients, designing a wearable device that attaches to the skin has many challenges that require expertise of medical adhesives.



# Achieve Comfort, Performance & Quality



# : Our Solutions & Expertise

## INDUSTRY-BEST MATERIALS

Our top-quality, cutting-edge materials are sourced through our partnerships with the industry's most trusted makers of medical-grade products, including 3M™, Rogers® and more.

## ENGINEERED SOLUTIONS

Achieve production efficiencies and quality control through the advanced manufacturing techniques developed by our medical engineers.

## Why Precision Converting?

## QUALITY ENHANCEMENTS

Discover solutions to optimize your product design and performance that adhere to standards, requirements and specifications.

## STELLAR SERVICE

We are committed to you during the entire product life cycle, including product development, manufacturing, packaging and distribution.

## OUR CAPABILITIES



- ✓ Medical VMI solutions and RFID capabilities
- ✓ Dedicated medical converting facility
- ✓ Controlled environment storage
- ✓ Die and laser cutting for custom medical-grade materials
- ✓ 23 inventory locations of ISO 9001:2015 medical materials
- ✓ Extensive distribution network throughout North America
- ✓ ISO 13485:2016 certified and FDA Registered facility
- ✓ Class 7 Cleanroom converting

## DURABLE LABELS

Preserve and protect the legibility of the device's label through its entire lifecycle. Our team is equipped to select durable label materials that withstand harsh sterilization, temperature extremes and moisture.



## PRODUCT SOLUTIONS

- 3M™ Polyester Durable Labels, 7871, 7816

## : Work with us!

Our custom converting solutions for medical devices can help you optimize performance and improve patient outcomes. With access to the entire 3M™ Medical Materials & Technologies portfolio, we have a very strong chance of being able to provide the correct solution for any application that comes our way. Let us help you take your device to the next level.

## OUR INDUSTRY CERTIFICATIONS AND PARTNERSHIPS



***Precision  
Converting***  
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