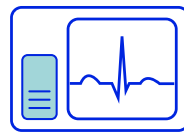
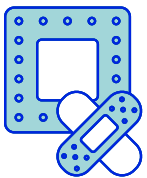
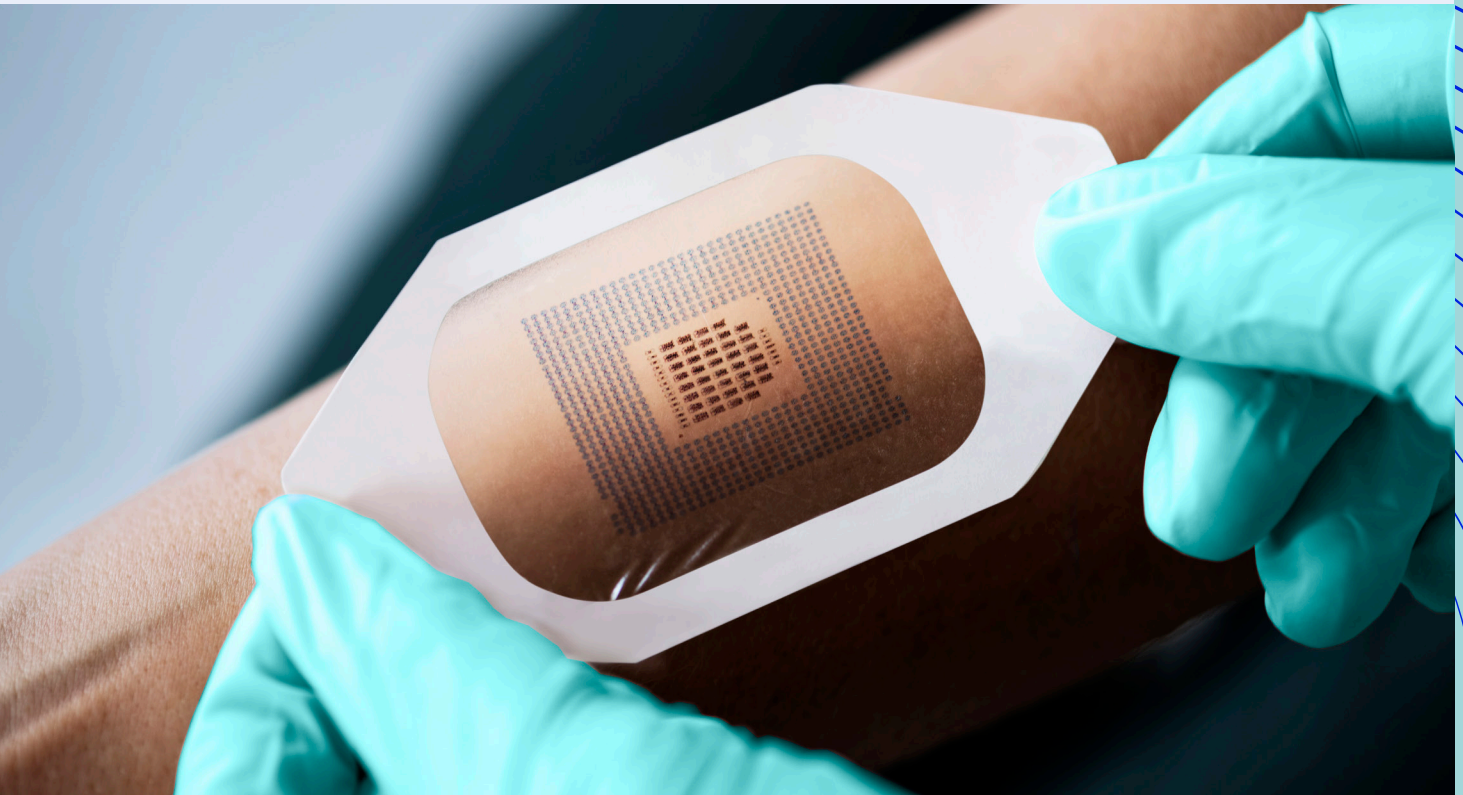


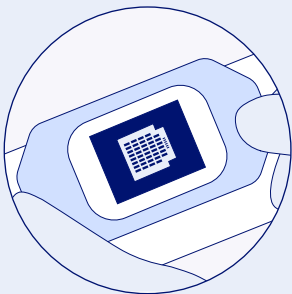
Healthcare Solutions

New possibilities in wearables, diagnostics, and labeling



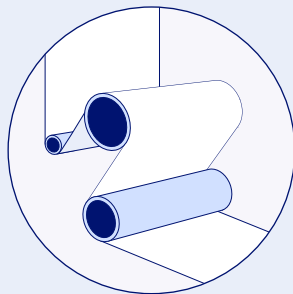
What Flexcon Healthcare Can Do for You

Over 65 years of experience as a purpose-driven material science company means that Converters and Medical Device Companies in the healthcare industry can count on Flexcon to deliver comprehensive solutions, innovation, and engineering expertise. Our specialty is in manufacturing and coating films and adhesives, where customers take advantage of our product development expertise to create the ideal solution, and our flexibility to start small and scale up as needs change.



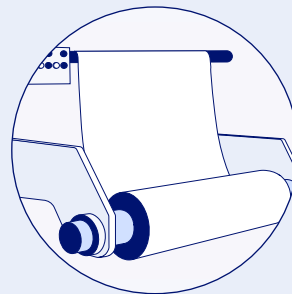
Rapid Prototyping

- Product Design
- Lab Prototyping
- Custom Testing
- Formulation
- Chemistry Modification & Custom Mixing



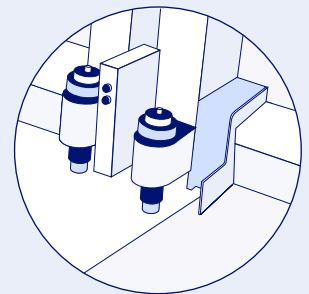
Coating

- Adhesive Coating
- Topcoating
- ISO Class 7 Cleanroom
- Adhesive Thickness Range from 0.5 mil to 4 mil
- Single and Double-sided Coating
- Zone Coating



Laminating

- Multilayer Laminations
- Heat Laminations
- Cold Laminations



Surface Modification

- Micro-embossing
- Perforation
- Brushing
- Nano-Imprint Lithography

Customers We Support

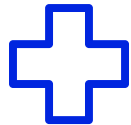
Whether you are a converter, medical device company, or small start up, we are here to help you commercialize healthcare technologies. We recognize you are looking for a partner who is flexible, forward thinking, and innovative. Your goal is our goal, to deliver a solution that fits a need.

Flexcon provides you with support for your application every step of the way, always striving for better patient outcomes.



Converter

- Wide range of product offerings
- Sample availability
- Technical support
- Certificate of analysis
- Flexible order quantities



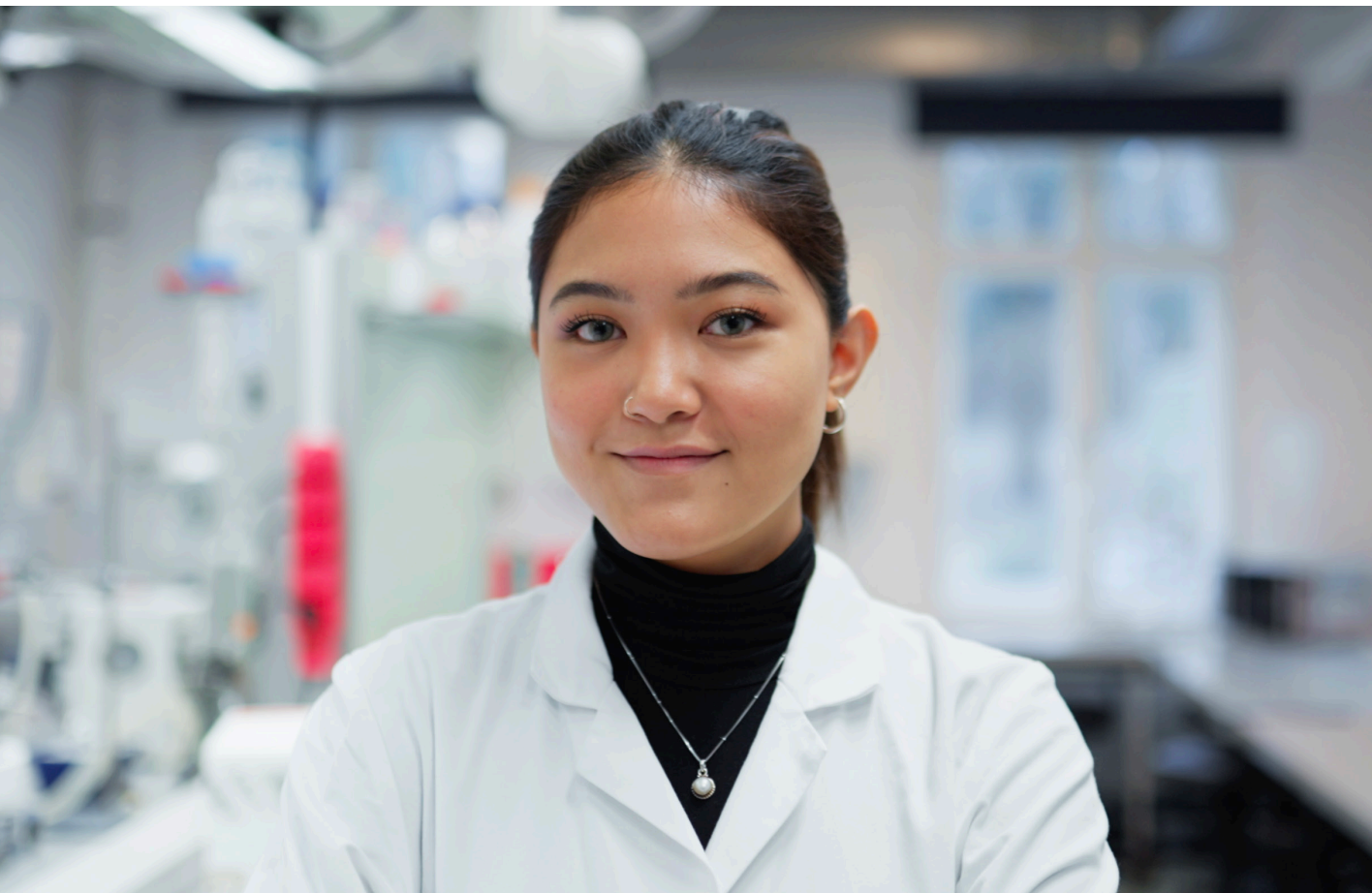
Start-Up and Large Medical Device Companies

- R&D design consultation and collaboration
- Performance solutions and data
- Prototyping for scale-up
- ISO 9001:2015 Certified with TUV Rheinland of North America
- Flexible order quantities
- Sample availability

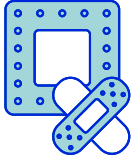


End User/Patient

- Safe medical components
- Consistent performance

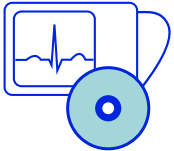


Healthcare Segments



Wearables

Skin-friendly adhesives
and flexible substrates



Diagnostics & Therapeutics

Conductive adhesive transfer tapes

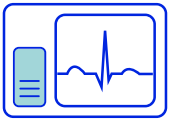


Case Studies

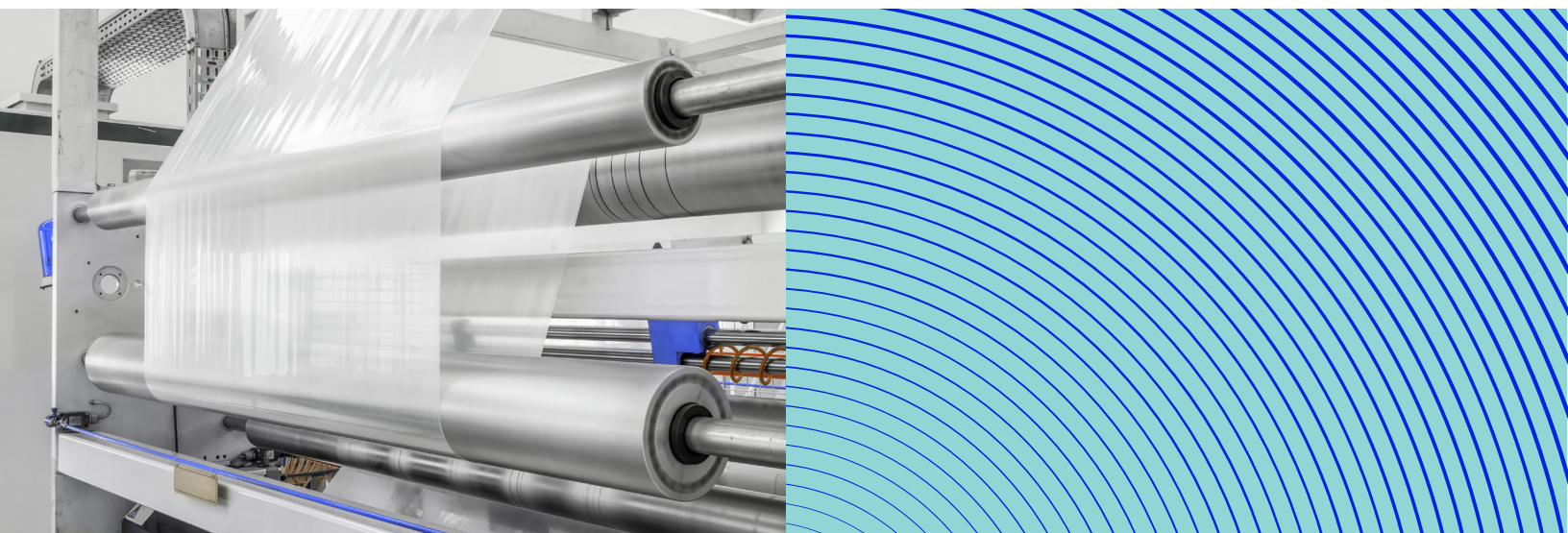


Pharmaceutical Labeling

Drug packaging
Security



Medical Device Labeling



Wearables

Flexcon® DermaFlex™ Skin-friendly adhesives and flexible substrates

Skin-friendly materials are intended for device attachment to the body. DermaFlex™ adhesives have been tested for biocompatibility (skin irritation, sensitization, and cytotoxicity) by Flexcon's adhesive suppliers using ISO-10993 or similar test methods*.

Choose from three tiers of adhesion - Gentle Release, General Use, or Long-Term Wear - as well as a variety of finished formats, including single-coated, double-coated, and transfer tapes.



Flexible



Extensible



Breathable



Soft



Conformable

Choose from standard product offerings, or create your own unique combination of flexible substrates and skin-friendly adhesives that are optimized for your specific application needs.

Flexible Substrates



Urethanes



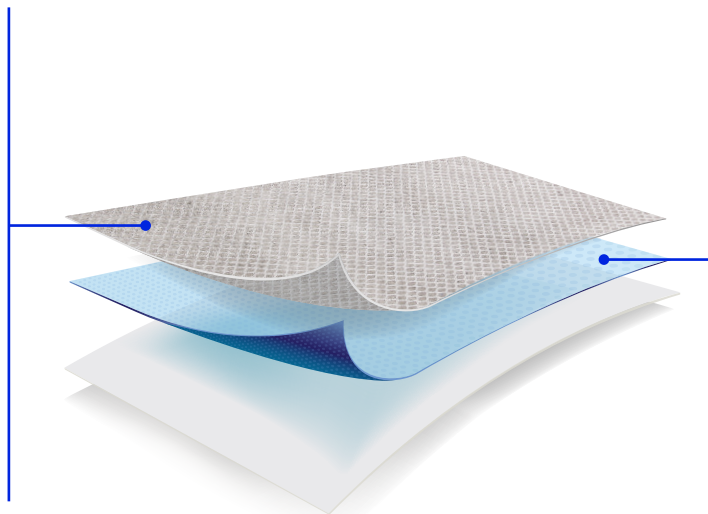
Nylon-Reinforced Urethane (NNRU)



Non-Wovens



Soft Foams



Three Tiers of Adhesion



Gentle Release
3 days or less**



General Use
3-14 days**



Long-Term Wear
21+ days**



Scan for more information, or visit
flexcon.com/dermaflex

*Biocompatibility testing was completed using a similar 'source' adhesive in some circumstances. Full biocompatibility test results are available on the web or upon request. **Length of Wear is highly dependent on multiple factors such as adhesive type, adhesive thickness, substrate type, substrate thickness, product size and shape, location on body, skin type (hairy, diaphoretic, etc.), and activity level (showering & exercise), etc. This information is intended to be used as a guide to aid with product selection.

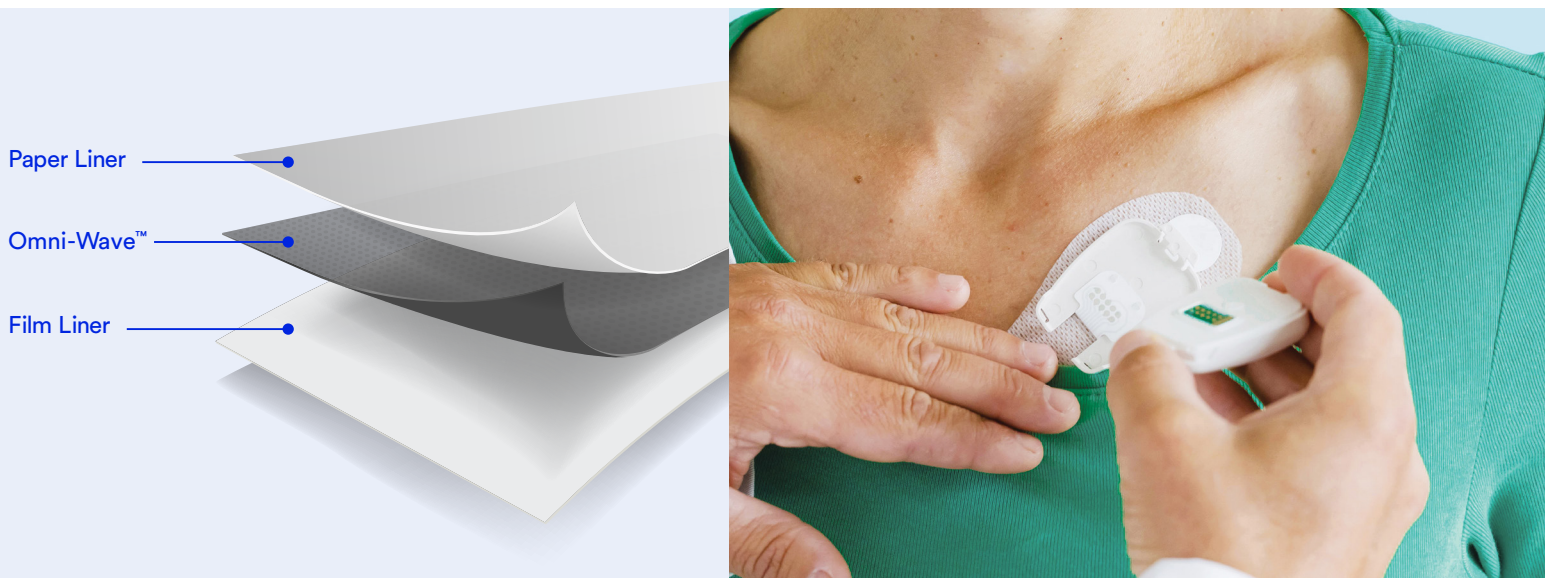
Diagnostics and Therapeutics

Flexcon® Omni-Wave™ Conductive adhesive transfer tapes

Omni-Wave™ allows you to select the signaling material that will meet your application's biosensing needs. From Long-Term Wear to Gentle Release, Omni-Wave™ is a hydrogel-free adhesive technology which can be used in electrodes and sensors. Omni-Wave™ is AAMI Compliant and passes ISO 10993-10 for sensitization and irritation.

Benefits of hydrogel-free technology

Longer shelf life • Faster and easier converting • No special handling requirements • Lower cost packaging requirements
Reduced shipping costs • Longer out-of-pack life of finished devices • No hydrogel-related skin reactions for patients



Omni-Wave™ diagnostic and therapeutic biosignaling options

Diagnostic (ECG / sEMG / EDA)

Therapeutic



Non-Stick
For wearable applications



Gentle Release
Neonatal, or fragile skin



Short-Term Wear
< 3 Days



Long-Term Wear
4 - 7+ days



Stimulation
Muscle and nerve stimulation (TENS)



Scan for more information, or visit
flexcon.com/omni-wave

Flexcon is Your Trusted Partner

Quantifiable benefits of Omni-Wave™ for our converter partners

We believe that technological advancements should be accessible to all. Flexcon has been fortunate to find alignment with likeminded companies.

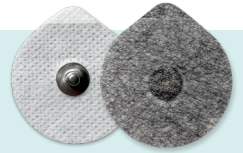
One such partnership explored the financial benefits of replacing hydrogel with our Omni-Wave™ product line. The technology itself has advantages over hydrogel from a patient experience perspective; however, we decided to take our comparisons a step further to quantify the hard and soft costs associated with replacing hydrogel.

The results included the following cost benefits:

- **Longevity**
 - Shelf life is four to eight times longer than hydrogel, reducing the risk of costly waste
 - Two-year out-of-pack life allowing for less expensive packaging
- **Lower total manufacturing costs:**
 - 3,000' long material rolls mean fewer roll changes
 - Improved processing: faster, no special handling or refrigeration requirements
 - Where required, less expensive EtO sterilization may be used
- **Reduced shipping costs:**
 - Lighter weight, reducing logistical issues and shipping costs at scale

Flexcon was able to pass these cost savings to our converter partners aiding them in manufacturing consistent medical devices with a higher net margin per unit.

Omni-Wave™



Comparable to hydrogel
raw material costs

22%

Lower manufacturing costs

50%

Lower packaging costs

11%

Lower total production costs

Layers of innovation for wearable devices

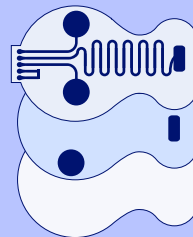
As a pioneer in developing groundbreaking materials, Flexcon partners with medical device companies to create and spec in cutting-edge medical grade adhesive solutions into wearable devices.

These quality products can be used as stand-alone components or paired up to provide multiple layers of functionality in 510(k) and CE-marked finished good medical devices.

Recently, Flexcon was included in the early design stages for a wearable bio-signal & ultrasound patch. The software and technology required to collect and interpret skeletal and muscular information using AI had been developed; however, affixing the device for the actual collection of the data for the duration of strenuous activity posed a challenge.

By joining the conversation in the early stages, we were able to partner with the design engineers to understand the wearable use case. Understanding the design and application requirements, Flexcon was able to provide a combination of skin-friendly adhesives (DermaFlex™) and electrically conductive transfer tapes (Omni-Wave™) to generate a multi-layered solution to meet the demands of the application. The finished product went to market meeting the requirements and timeline for the application.

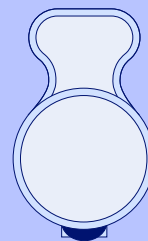
Wearable Bio-Signals & Ultrasound System



PE 350 FWM
PTP no PS printed

DermaFlex™ NWP H-778
Omni-Wave™ H-502

PFW Liner



WBS Patch
Neuromuscular
& Body Motion
Biomarkers Analysis

Pharmaceutical Labeling

Flexcon® PharmCal® Drug packaging and security

The PharmCal® portfolio consists of six unique product families based on end-use application. Each is comprised of a full range of high-performance materials engineered to meet all your pharmaceutical labeling needs.

Specific PharmCal® products comply with 21 CFR 175.105†, REACH, RoHS/WEE, and ISO 10993-5, -10‡.



Small Diameter Labeling



Large Diameter Labeling



Conceal



Cryogenics & Cold Chain



Security & Tamper-Evident



Blood Bag Labeling



Exceptional Printability

- Reliable topcoats for conventional & digital ink systems to enable cross-platform printability and reduced SKUs
- Chemical & abrasion resistance for long-term readability



Engineered Films

- Dimensional stability for high-speed auto-dispense labeling applications



Scan for more information, or visit
flexcon.com/pharmcal

†FDA CFR 175.105: Adhesives may be safely used as components of articles intended for use in packaging, transporting, or holding food in accordance with prescribed conditions.
‡ISO 10993-5,-10: Tests for in vitro cytotoxicity, irritation, and sensitization

Medical Device Labeling

Flexcon® MedFlex®

FDA Class I and II medical devices used outside the body

Flexcon® MedFlex® products meet FDA standards and label durability that enables you to deliver labels designed specifically for the medical device industry. MedFlex® products provide you with:

FDA Compliance

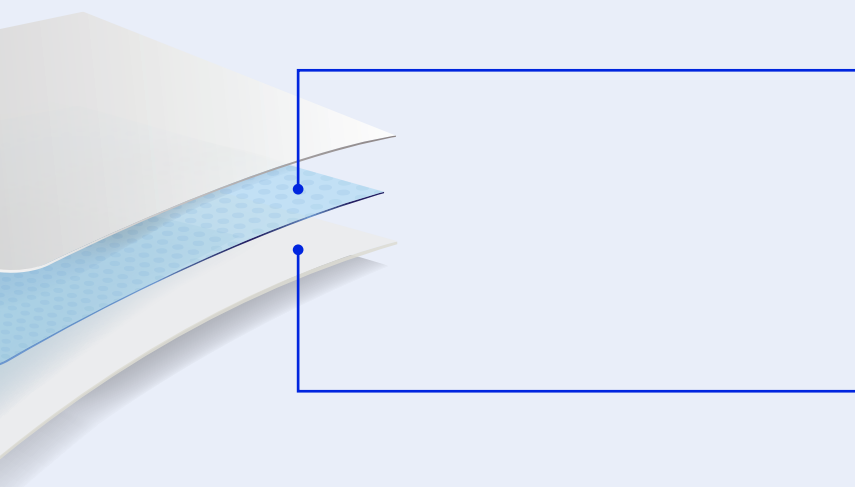
MedFlex® Plus and MedFlex® Overlam products are UL-Recognized and comply with IEC 60601-1 3rd edition durability rub tests. In addition, MedFlex® Plus films are UL-Verified. Products achieve FDA's Title 21 Part 801 labeling requirements.

Zero Adoption Costs

When specific minimum purchase conditions are met, Flexcon will reimburse you for UL's flat adoption fee – reducing your transfer cost to zero.

UL-Recognized/UL-Verified

MedFlex® products are immediately adoptable into your UL file, providing you with the label and finishes you need to produce a compliant medical device label.



Robust Adhesion

- Adhesives developed specifically for the most challenging and demanding applications



Optimized Liners

- High-tensile strength allows for high-speed diecutting, matrix stripping, and auto-dispensing



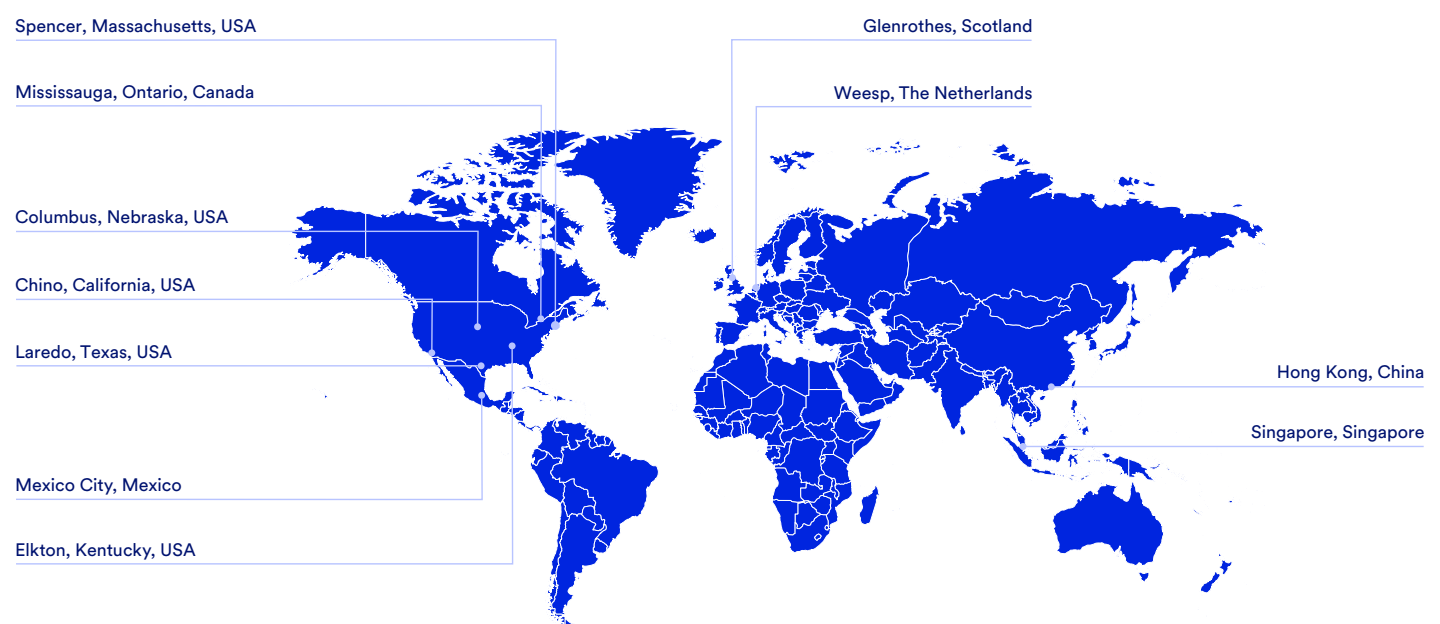
Scan for more information, or visit flexcon.com/medflex



Supporting Businesses Globally

In 1956, Myles McDonough pioneered the first pressure-sensitive film product in a Spencer garage, breaking away from the industry's focus on high-volume commodity products. His vision was to meet the unique needs of innovators seeking new applications for pressure-sensitive films.

Today, over 65 years later, Flexcon continues this legacy, serving diverse industries such as packaging, electronics, transportation, and healthcare. Flexcon is a trusted manufacturing partner, known for turning innovative ideas into reality. For over 35 years, Flexcon has been supplying the healthcare industry with adhesives, tapes, films, and coating technologies. Our products support applications in patient care, pharmaceuticals, diagnostics, and consumer wellness.



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