FLEXcon® Healthcare
Functional Films,
Coatings, and
Technologies
Capabilities

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

**Coating**
- Adhesive Coating
- Topcoating
- ISO Class 7 Cleanroom
- Adhesive thickness range to 0.5 mil to 4 mil
- Single and double-sided coating
- Zone Coating

**Laminating**
- Multilayer Laminations
- Heat Laminations
- Cold Laminations
- Heat Seal Laminations

**Surface Modification**
- Microembossing
- Perforation
- Brushing
- Dyeing
- Nano-Imprint Lithography

**Finishing**
- Slitting
  - Cut sizes from 4” to 60” wide
- Sheeting
  - Sheets 8” to 102” long
- Custom Packaging
- Rewinding & Splicing capability

**Quality Assurance**
- Product Verification
- Certifications (CoC / CoA)
- Regulatory Testing
- Customer Specific Testing
- Regulatory (Component & Compliance)
- Customer Service & Support

**Distribution**
- Warehousing
- Customer Special Stocking
- Global Distribution

Healthcare Segments

**Advanced Wound Care**
- Skin-friendly adhesives for gentle release, general use, & long-term wear
- Breathable & extensible film substrates for wound treatment

**Medical Tapes**
- Skin-friendly adhesives & tapes for holding tubing in place

**Infection Control**
- Antimicrobial surface coatings
- Microembossed film surfaces

**Surgical Environment**
- Skin-friendly adhesives & tapes for surgical drapes
- Mechanical fasteners for gown closures

**Point of Care**
- Print-receptive coatings for wristbands
- Low migration coatings for IV & blood bags
- High shear adhesives for IV hangers

**Drug Packaging**
- Roll & sheet label substrates for vial & syringe labeling
- Cryogenic adhesives for cold storage
- High-performance adhesives & coatings

**Security**
- Voiding & destructible films for tamper-evidence
- Holographic films for anti-counterfeiting
- Reactive coatings for process validation

**Medical Devices**
- Roll & sheet label substrates for hazard identification
- Print-receptive coatings for asset tracking
- Bonding & mounting adhesives for device assembly

**Electro-Medical**
- Skin-friendly adhesives for ECG, EMG, and EEG electrodes
- Soft foam and fabric substrates

**Microfluidics**
- Microembossed film substrates
- Nano-imprinted surface features

**Diagnostics**
- Skin-friendly adhesives & tapes for drug absorption
- Flexible over tapes for device fixation

**Wearables**
- Customized adhesive coatings for drug absorption
- Long-term wear adhesives for drug transport systems

**Drug Delivery**
- Skin-friendly adhesives & tapes for drug delivery
- Extensible fabrics for kinesiology tapes
- Flexible overtapes for device fixation
### Patient Care

#### Products

<table>
<thead>
<tr>
<th>Advanced Wound Care</th>
<th>Skin-friendly adhesives for gentle release, general use, &amp; long-term wear</th>
<th>Breathable &amp; extensible film substrates</th>
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</thead>
<tbody>
<tr>
<td>Medical Tapes</td>
<td>Skin-friendly adhesives &amp; tapes</td>
<td>IV &amp; Catheter Tubing, Respiratory Tubing</td>
</tr>
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<td>Infection Control</td>
<td>Antimicrobial surface coatings, Micro-embossed film surfaces</td>
<td>Medical Packaging, Surface Coverings</td>
</tr>
<tr>
<td>Surgical Environment</td>
<td>Drape tapes, Resealable adhesives and mechanical fasteners</td>
<td>Surgical Drapes, Surgical Gowns</td>
</tr>
<tr>
<td>Point of Care</td>
<td>Print-receptive top coatings, Low-migration coatings, High-shear adhesives</td>
<td>IV &amp; Blood Bags, Wristbands</td>
</tr>
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</table>

#### Typical Applications

<table>
<thead>
<tr>
<th>Advanced Wound Care</th>
<th>Acute &amp; Chronic Wounds, Bandages &amp; Wraps</th>
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#### Technologies

100+ Surface Coatings

200+ Adhesives

400+ Substrates

### Coating Technologies

- **Print-Receptive Coatings**
  - Digital (UV Inkjet & HP Indigo)
  - Conventional (Flexo, Screen, Gravure)
  - Thermal Transfer & Direct Thermal
  - Low Migration Coatings

- **Antimicrobial Coatings**
  - Silver-based Coatings
  - Biocide-free Coatings

### Substrate Technologies

- **Flexible Substrates**
  - Extensible Films
  - Perforated Films
  - Soft Foams
  - Breathable Fabrics

- **Micro-embossed Substrates**
  - FLEXcon® MICROLOC® fastener for gown ties, drapes, and other medical garments
  - SHARKLET™ Antimicrobial Films
  - Engineered surface topography prohibits bacterial attachment

### Adhesive Technologies

- **FLEXcon® dermaFLEX™ Skin-Friendly Adhesives**
  - ISO 10993 Compliant for Skin Contact
  - Extra Gentle (H-506 & H-509)
  - General Use (H-520 & H-529)
  - Long-Term Wear (H-566 & H-778)

- **Cleanroom Coating**
  - ISO Class 7 Certified
  - Thermal & UV Cure
  - Single & Double-Side Coating
  - Zone Coating
  - Air Flotation Oven

**Sharklet™** is a trademark of Sharklet Technologies, Inc.
# Products

<table>
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<th>Drug Packaging Technologies</th>
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<td>Security Technologies</td>
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## Drug Packaging Technologies

### Sterilization Compatible Materials
- Suitable for various sterilization methods, including: Autoclave, ETO, Gamma, E-beam
- FLEXcon® CryoFLEX™ cryogenic materials capable of freezer storage to -112°F (-80°C) with no lifting or flagging

### Low Temperature Adhesion
- FLEXcon® CryoFLEX™ cryogenic materials capable of freezer storage to -112°F (-80°C) with no lifting or flagging

### Adhesive Versatility
- Bond to glass & HDPE surfaces
- Tight radius anchorage
- No lifting or flagging
- FLEXcon® PHARMcal® TC-282 Series top coatings are compatible with low migration inks
- FLEXcon® THERMLfilm® CHEMGARD™ top coatings are resistant to IPA, MEK, and Xylene

### High Performance Coatings
- FLEXcon® PHARMcal® TC-282 Series top coatings are compatible with low migration inks
- FLEXcon® THERMLfilm® CHEMGARD™ top coatings are resistant to IPA, MEK, and Xylene

## Security Technologies

### Tamper-evident Films
- FLEXcon® TAMPERmark™ film substrates
- Various patterns available including VOID, Checkerboard, and custom options
- Dry peel products eliminate sticky residue
- Designed to tear apart upon removal

### Destructible Films
- FLEXcon® PL White Destruct
- Light-sensitive additives for label verification

### Photoluminescent Tracers
- Specialty films with overt & covert light diffractive properties
- Ability to provide custom holograms
Products

<table>
<thead>
<tr>
<th>Medical Device</th>
<th>Typical Applications</th>
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<tr>
<td>Components for interior &amp; exterior device assembly</td>
<td>Roll &amp; sheet label substrates Print-receptive coatings Bonding &amp; mounting adhesives</td>
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<td>Medical Device Technologies</td>
<td>Chemical Resistant Coatings High-Performance Adhesives Membrane Switch Components</td>
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<tr>
<td>- FLEXcon® THERMAL™ CHEMGARD™ coatings resist harsh solvents like IPA, MEK, and Xylene</td>
<td>- FLEXcon® dermaFLEX™ Skin Friendly Adhesives Anchor conductive electrodes to body Enable accurate signal tracing</td>
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<td>- FLEXcon® MedFLEX® Device Labeling Materials</td>
<td>- High adhesion to a wide variety of surfaces</td>
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<td>- FLEXcon® FLEXmount® Bonding &amp; Mounting Adhesives</td>
<td>- FLEXcon® SWITCHmark® spacer components</td>
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<td>- Soft foams</td>
<td>- Patented Hydro-gel free design enables longer shelf life (6 months open package; 24 months unopened package)</td>
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<td>- Breathable fabrics</td>
<td>- FLEXcon® OMNI-WAVE™ Technology</td>
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Electro-Medical Technologies

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Microfluidic Technologies

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<th>Microembossed Films</th>
<th>Nano-Imprint Lithography</th>
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<tr>
<td>- Thermally embossed 3D surface structures</td>
<td>- Nano-scale surface features</td>
</tr>
<tr>
<td>- Micro-channel formation</td>
<td>- Nano-filtration membrane for fluid separation</td>
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<tr>
<td>- Micro-needle formation</td>
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**Wearable Device Technologies**

**UV Reactive Coating**
- UV indicator is engineered to change color when skin is exposed to high levels of UV radiation

**CO2 Reactive Coating**
- CO2 indicator is engineered to change color when exposed to high levels of carbon dioxide

**Extensible films & fabrics**
- Various substrates are available for everyday wear

**Flexible Overtapes**
- Extensible film substrates can be paired with a skin-friendly adhesive to hold monitoring systems in place with maximum comfort and flexibility

**Drug Delivery Technologies**

**Customized Adhesive Formulations**
- Skin-friendly coatings can be modified with tailorable properties
- Adhesive coating formulations can be pre-mixed or post-altered with custom drug systems for a variety of applications

**Long-Term Wear Adhesives**
- FLEXcon® dermaFLEX™ Skin-Friendly Adhesives can be used to anchor drug delivery devices to the body

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**Products**

**Wearable Devices**
- Functional materials used for everyday wear
- Skin-friendly adhesives & tapes
- Reactive surface coatings
- Extensible film & fabric substrates
- Flexible overtapes for device fixation

**Drug Delivery**
- Materials designed to aid with transport of drug systems into body
- Customized adhesive coatings
- Long-Term Wear Adhesives

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**Typical Applications**

**Skin-friendly adhesives & tapes**
- Health Monitoring
- Skin Protection

**Reactive surface coatings**
- Sports & Fitness Tapes
- Body Shaping Tapes

**Extensible film & fabric substrates**
- Flexible overtapes for device fixation

**Flexible overtapes**
- Health Monitoring
- Skin Protection

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**Drug Delivery Technologies**

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**Technologies**
Supporting Businesses Globally

It takes an innovative spirit to try something no one else is willing to try, and that's exactly the spirit Myles McDonough had back in 1956 when he produced his first pressure-sensitive film product in his Spencer garage. **At a time when other film suppliers only wanted to produce commodity products** that could be run fast and at high volumes, **Myles had a vision** - one where he would fill the needs of other innovators who wanted to use pressure-sensitive films in new and different ways that had never been seen before. These innovators needed a development partner to turn their ideas into reality.

Today, more than 60 years later, this spirit is still what sets FLEXcon apart. **Proudly serving industries from Packaging to Electronics and from Aerospace to Healthcare**, FLEXcon is a trusted manufacturing partner to help take your innovative ideas from concept to reality. **FLEXcon has been supplying the Healthcare industry with adhesives, tapes, films, and coating technologies for over 35 years** for applications that support Patient Care, Pharmaceuticals, Diagnostics and Consumer Wellness.