

# FLEXcon<sup>®</sup> dermaFLEX<sup>™</sup>

Flexible Adhesive Substrates for Wearables



# Skin-Friendly Adhesives & Flexible Films

FLEXcon® dermaFLEX™ 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.

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



Urethanes



Nylon-Reinforced Urethane (NNU)

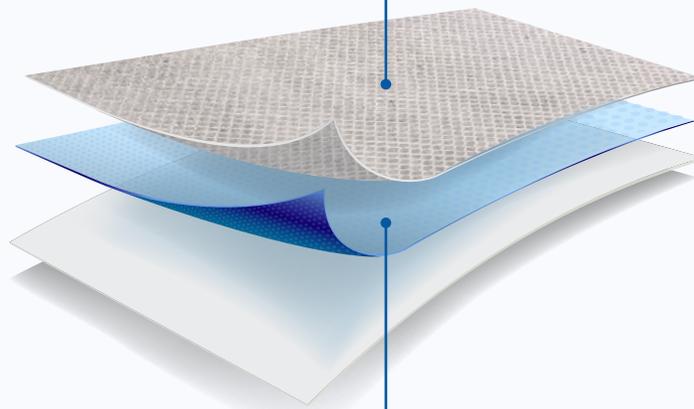


Non-Wovens



Soft Foams

## Flexible Substrates



## Three Tiers of Adhesion



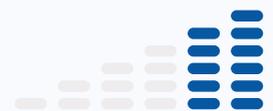
**Gentle Release**

3 days or less\*\*



**General Use**

3-7 days\*\*



**Long-Term Wear**

7+ days\*\*

\*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.

# Product Matrix

- Our combination of flexible substrates and skin-friendly adhesives form a product portfolio that is suitable for a variety of applications.

Characteristics	Flexibility	Extensible	Breathable	Soft	Conformable

Substrates	Urethanes (U) Nylon-Reinforced (NNRU)	<ul style="list-style-type: none"> <li>Conformable urethane film</li> <li>Conforms around complex curves</li> <li>Two-way stretch</li> <li>Excellent tensile strength</li> <li>Elastic properties</li> <li>Allows movement</li> </ul>	●	●	●	●		
	Non-woven Polyester (NWP)	<ul style="list-style-type: none"> <li>Soft non-woven polyester fabric</li> <li>Allows moisture to pass through</li> </ul>	●		●	●		
	Foam (P.E.F.)	<ul style="list-style-type: none"> <li>Thick foam provides a sturdy base for electrodes &amp; other applications</li> <li>Soft and flexible</li> <li>Lightweight</li> <li>Variety of gauges available</li> <li>Offered in white and black</li> </ul>	●			●		
	Double-Face Tapes	Double-Face Polyester (DFM)	<ul style="list-style-type: none"> <li>Clear polyester film</li> <li>Thin gauge</li> <li>Flexible</li> <li>2-sided adhesive</li> </ul>	●				
	Transfer Tapes	Single Liner	<ul style="list-style-type: none"> <li>Single-liner transfer adhesive for mounting &amp; bonding</li> </ul>	●				

Adhesives		
Gentle Release	General Use	Long-Term Wear
<ul style="list-style-type: none"> <li>Extremely gentle removal</li> <li>Best for fragile skin</li> <li>Suitable for repeat use</li> </ul>	<ul style="list-style-type: none"> <li>General purpose</li> <li>Moderate strength</li> <li>Best for securement of tubing &amp; dressings to healthy skin</li> </ul>	<ul style="list-style-type: none"> <li>High strength for extended wear</li> <li>Durable anchorage</li> <li>Suitable for challenging skin types such as diaphoretic or hairy skin</li> <li>Best for medical device attachment</li> </ul>
<b>H-506</b>  Peel <3 Tack 91	<b>H-520</b>  Peel <65 Tack 720	<b>H-529</b>  Peel <69 Tack 930
<b>H-566</b>  Peel <99 Tack 1260	<b>H-778</b>  Peel <116 Tack 1010	
<b>FLX068278</b>  Securely fastens, yet removes gently	<b>FLX068644 / FLX068642</b>  General-purpose overtape	<b>FLX006979 / FLX063903 / FLX069014</b>  Secure anchorage with maximum flexibility
<b>FLX068635</b>  Breathable with gentle removal	<b>FLX068290 / FLX068289</b>  General-purpose securement	<b>FLX043343 / FLX068292</b>  High adhesion securement
<b>FLX069112</b>  Monitoring for fragile skin	<b>FLX068291 / FLX065697</b>  General-purpose monitoring	<b>FLX011986 / FLX068293</b>  High-adhesion monitoring
		<b>FLX043160 / FLX068984</b>  High-adhesion device attachment
		<b>FLX068435 / FLX068436</b>  High-adhesion mounting & bonding

# Typical Applications

To request samples,  
please scan here

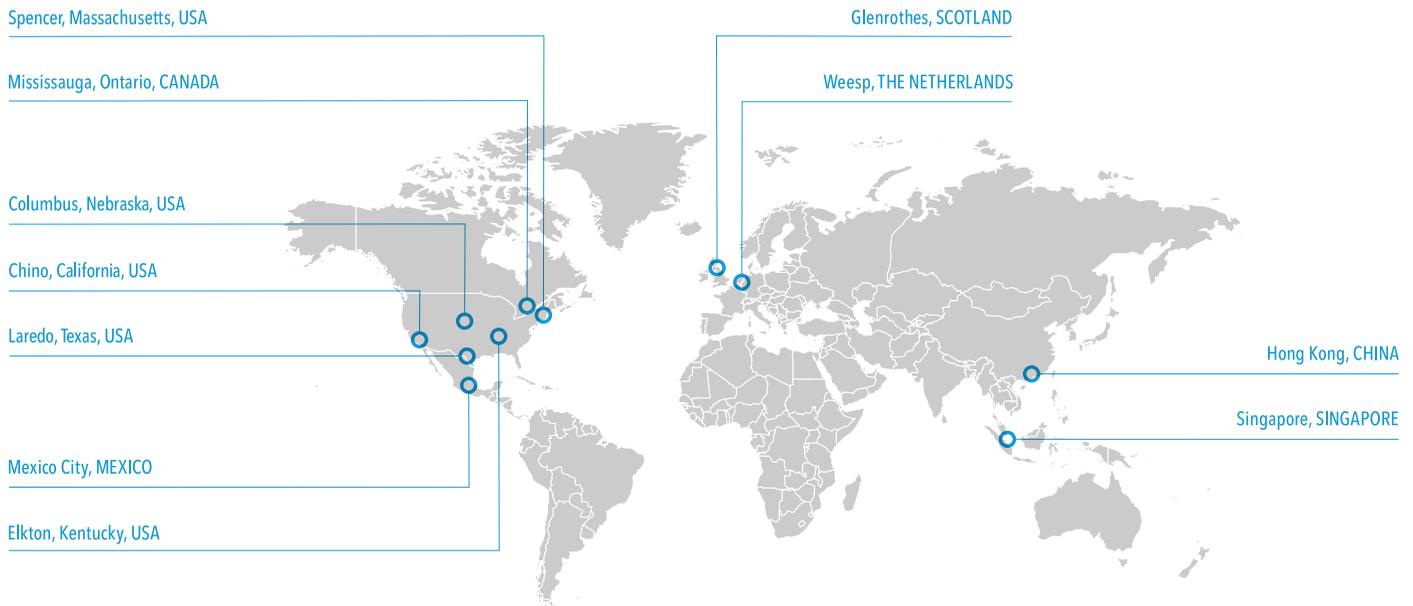


Applications	Recommended Products	Features & Benefits
<p><b>Wearables</b></p>  <p>Flexible overtapes for:</p> <ul style="list-style-type: none"> <li>• Glucose monitors</li> <li>• Insulin pumps</li> <li>• Pulse oximeters</li> </ul>	<p><b>FLX068278 NNRU 100 CLEAR H-506</b>  <b>FLX068644 NNRU 100 CLEAR H-520</b>  <b>FLX068642 NNRU 100 CLEAR H-529</b>  <b>FLX006979 NNRU 100 CLEAR H-566</b>  <b>FLX069014 NNRU 100 CLEAR H-778</b>  <b>FLX063903 U 100 CLEAR H-566</b></p>	<ul style="list-style-type: none"> <li>• Affix wearable device to body</li> <li>• Durable anchorage</li> <li>• Provide flexibility &amp; movement</li> <li>• Double-face constructions available</li> </ul>
<p><b>Medical Tapes</b></p>  <p>Tapes to secure:</p> <ul style="list-style-type: none"> <li>• IV tubing</li> <li>• Wiring</li> <li>• Catheter tubing</li> <li>• Ostomy bags</li> </ul>	<p><b>FLX068635 NWP 240 WHITE H-506</b>  <b>FLX068290 NWP 240 WHITE H-520</b>  <b>FLX068289 NWP 240 WHITE H-529</b>  <b>FLX043343 NWP 240 WHITE H-566</b>  <b>FLX068292 NWP 240 WHITE H-778</b></p>	<ul style="list-style-type: none"> <li>• Affix medical tubes &amp; wiring in place</li> <li>• Prevent removal during patient care</li> <li>• Gentle options for sensitive skin</li> </ul>
<p><b>Monitoring</b></p>  <ul style="list-style-type: none"> <li>• ECG electrodes</li> <li>• EMG electrodes</li> <li>• EEG electrodes</li> </ul>	<ul style="list-style-type: none"> <li>• <b>FLX069112 P.E.F. 32 WHITE H-506</b></li> <li>• <b>FLX068291 P.E.F. 32 WHITE H-520</b></li> <li>• <b>FLX065697 P.E.F. 32 WHITE H-529</b></li> <li>• <b>FLX011986 P.E.F. 32 WHITE H-566</b></li> <li>• <b>FLX068293 P.E.F. 32 WHITE H-778</b></li> </ul>	<ul style="list-style-type: none"> <li>• Anchor conductive electrodes to body</li> <li>• Enable accurate signal tracing</li> </ul>
<p><b>Device Attachment</b></p>  <p>Double-faced (2-sided) tape for medical device attachment</p>	<ul style="list-style-type: none"> <li>• <b>FLX043160 DFM 100 CLEAR H-566</b></li> <li>• <b>FLX068984 DFM 100 CLEAR H-778</b></li> </ul>	<ul style="list-style-type: none"> <li>• Anchor medical devices to the body</li> <li>• H-778 provides excellent adhesion to low-surface energy plastics</li> </ul>
<p><b>Mounting &amp; Bonding</b></p>  <p>Transfer adhesive for high adhesion mounting &amp; bonding applications</p>	<ul style="list-style-type: none"> <li>• <b>FLX068435 TT 200 H-566</b></li> <li>• <b>FLX068436 TT 200 H-778</b></li> </ul>	<ul style="list-style-type: none"> <li>• Backed with a single 55# release liner for roll-form converting</li> </ul>

# 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 M<sup>c</sup>Donough 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 65 years later, this spirit is still what sets FLEXcon apart. **Proudly serving industries from Packaging to Electronics and from Transportation 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.



[www.FLEXcon.com/dermaFLEX](http://www.FLEXcon.com/dermaFLEX)

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