

# Skin Contact Applications

Clear Nylon Reinforced Polyurethane Film with H-778

*FLEXcon® dermaFLEX™ adhesives have been tested for biocompatibility (skin irritation, sensitization, and cytotoxicity) by FLEXcon's adhesive suppliers using ISO-10993 or similar test methods\*.*

*dermaFLEX™ adhesives could be used as a device component for applications where direct skin contact may occur, including:*

- *Wearables*
- *Medical Tapes*
- *Monitoring*
- *Patient Care*

*We have the flexibility to customize constructions to meet your converting and end-use requirements. This includes release liner, carrier film, adhesive thickness, and other variables.*

*For more information on FLEXcon's pressure-sensitive film solutions for Skin Contact Applications contact your local Sales Representative or our Performance Products Business Team at (508) 885-8440.*

*Product ID #: FLX069014*



**Product:** FLEXcon® dermaFLEX™ NNRU 100  
Clear H-778 SPEC 50K-8

**Benefits:**

- NNRU (Nylon Netting Reinforced Urethane) is a conformable polyurethane film reinforced with a nylon netting for high extensibility & strength
- NNRU is ideal for use as an overtape to secure medical devices to the body & provide maximum flexibility and movement
- H-778 high-performance adhesive with ultra-high strength for extended wear, such as attachment of long-term wearable devices
- H-778 adhesive bonds to smooth and textured TPO's and other low-energy surfaces commonly found in medical devices
- Backed with a 50-lb. bleached kraft release liner suitable for roll form converting

Please note: Our combination of flexible substrates and skin-friendly adhesives form a product portfolio that is suitable for a variety of applications. Choose from existing products, or work with our Technical Service team to create your own unique combination that's optimized for your specific application needs.



## FLEXcon® dermaFLEX™ NNRU 100 Clear H-778 SPEC 50K-8

PRODUCT DATA	VALUE	TEST METHOD
<b>Physical Properties</b>		
Thickness (Mils[microns])	Film	1.0 (25) +/- 10 %
	Scrim & Adhesive	3.8-4.2 (97-107) +/- 0.4 (10)
	Liner	3.1 (79) +/- 10 %
<b>Adhesion Properties</b>		
Ultimate Peel from	Average	ASTM D 903 (Modified for 72 hour dwell time)
	Oz/ln	(N/m)
	Acrylic	44 (484)
	Glass	37 (407)
	Polyethylene	27 (297)
	Polypropylene	22 (242)
	Stainless Steel	37 (407)
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	Less than 0.25	
Tack (gm/sq cm)	230	ASTM D 2979
Storage Stability	Two years stored at 70°F (21°C) and 50% relative humidity	

\*Biocompatibility testing was completed using a similar 'source' adhesive in some circumstances. Full biocompatibility results are available on the web and upon request.

For guidance only, not to be used for setting specifications. The data presented are based on three or less production runs. Product construction sheets are updated as necessary, without notice. Please contact FLEXcon to request a copy of most recent version.

DISCLAIMER: FLEXcon MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR TRADE USAGE. This product is a device component intended solely for further processing, manufacturing, or incorporation into a finished device, and is further intended only for use as a device component on intact skin (i.e., not intended for use in the presence of open sores or wounds nor for applications inside the body). Customer is solely responsible for determining whether this component product is fit for Customer's intended use, including, without limitation, incorporation into Customer's finished device(s), and for performing any additional testing that may be necessary to support Customer's intended use. Customer is solely responsible for ensuring that its use of the component product is in compliance with the applicable laws and for obtaining any necessary clearances or approvals from its use of the component product and any finished device that incorporates the component product.

### Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

Last Modified On: 10/20/2022

