

# Skin Contact Applications

Clear Nylon Reinforced Polyurethane Film with H-566

*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 #: FLX006979*



Product:

**Flexcon®  
DermaFlex™ NNRU 100 Clear  
H-566 SPEC 50K-9**

Benefits:

- .001" clear nylon reinforced polyurethane film
- H-566 high-tack acrylic adhesive with high strength for extended wear
- EtO and Gamma Sterilization Compatible
- Backed with a 50-lb. bleached kraft release liner

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.



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| PRODUCT DATA              | VALUE                                                     |                                     | TEST METHOD                                                                     |
|---------------------------|-----------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------|
| Physical Properties       |                                                           |                                     |                                                                                 |
| Thickness (Mils[microns]) | Film                                                      | 1.0 (25) +/- 10%                    | ASTM D 3652 (Modified for use with non-tape products)                           |
|                           | Scrim & Adhesive                                          | 3.3-3.8 (84-97) +/- 0.4 (10)        |                                                                                 |
|                           | Liner                                                     | 3.1 (79) +/- 10%                    |                                                                                 |
| Adhesion Properties       |                                                           |                                     |                                                                                 |
| Ultimate Peel from        | Average                                                   |                                     | ASTM D 903 (Modified for 72 hour dwell time)                                    |
|                           | Oz/in                                                     | (N/m)                               |                                                                                 |
| Acrylic                   | 25+                                                       | (275+)<br>Film delaminates and rips |                                                                                 |
| Glass                     | 25+                                                       | (275+)<br>Film delaminates and rips |                                                                                 |
| Polypropylene             | 25+                                                       | (275+)<br>Film delaminates and rips |                                                                                 |
| Stainless Steel           | 25+                                                       | (275+)<br>Film delaminates and rips |                                                                                 |
| Expected Shear            |                                                           |                                     | ASTM D 3654 Method A<br>a. 1 hr. dwell<br>b. 1 sq. in. surface<br>c. 4 lb. load |
| Room Temp (hours)         | Less than 1.0                                             |                                     |                                                                                 |
| Tack (gm/sq cm)           | 210                                                       |                                     | 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.

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**Product Performance and Suitability**

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Last Modified On: 02/13/2024

