

# Skin Contact Applications

## Clear Nylon Reinforced Polyurethane Film with H-506

*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 #: FLX068278*



**Product:** Flexcon® DermaFlex™ NNRU 100 Clear  
H-506 SPEC 50K-8

**Benefits:**

- NNRU (Nylon Netting Reinforced Urethane) substrate consisting of a conformable polyurethane film reinforced with a nylon netting for high extensibility & strength
- H-506 gentle release acrylic adhesive bonds well, yet removes gently from skin
- 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-506 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	3 (33)
	Glass	3 (33)
	Polyethylene	2 (22)
	Polypropylene	2 (22)
	Stainless Steel	3 (33)
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)	70	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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