

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
Physical Properties		
Thickness (Mils[microns])	Film	1.0 (25) +/- 10 %
	Scrim & Adhesive	3.8-4.2 (97-107) +/- 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	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.

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Product Performance and Suitability

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