

Skin Contact Applications - Electrodes & Wearables

Hydrogel-Free Bio-Signal Sensing Transfer Tape

Flexcon® Omni-Wave™ bio-signal sensing transfer tape adhesive has been tested for ISO 10993-10 biocompatibility (irritation, sensitization) by an independent testing agency specializing in biocompatibility. The adhesive also meets the requirements of AAMI/ANSI EC-12.

Flexcon® Omni-Wave™ hydrogel-free adhesive applications include:

- *Electrodes (diagnostic & therapeutic)*
- *Sensors for wearable devices*

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 #: FLX068983



Product:

**Flexcon® Omni-Wave™
TT 200 Black H-502
150 Poly H-9 44PP-8**

Benefits:

- H-502 hydrogel-free skin contact adhesive (transfer tape) engineered for short-term wear (3 days) for medical device attachment (electrodes or sensors) demonstrates minimal skin irritation as compared to hydrogel electrodes
- Conductive adhesive layer allows electronics to send and receive waveform signals between the connected surfaces
- Product performance is not affected by humidity
- 1.5 mil ultra-smooth polyester release liner provides ultimate smoothness and flow-out of adhesive, and is ideal for roll-form converting
- 44 lb. polycoated natural Kraft release liner ideal for roll-form converting
- Patented Flexcon® Omni-Wave™ technology
- Association for Advancement of Medical Instrumentation (AAMI) compliant
- Passes ISO 10993-10 (biological evaluation of medical devices) for sensitization and irritation

Flexcon® Omni-Wave™

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PRODUCT DATA	VALUE		TEST METHOD
Physical Properties			
Thickness (Mils[microns])	44 PP-8 Liner	3.0 (76) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)
	Adhesive	2.0-2.2 (51-56) +/- 0.1 (3)	
	150 Poly H-9 Liner	1.4 (36) +/- 5%	
Adhesion Properties			
Ultimate Peel from	Average		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
	Oz/in	(N/m)	
Stainless Steel	13	(143)	
Expected Shear			
Room Temp (hours)	2		
Tack (gm/sq cm)	340		ASTM D 2979
Electrical Properties			
Z-Direction Resistance	Less than 20 Ohms/in ²		ASTM D 257
Surface Resistivity	Less than 200 Ohms/square		ASTM D 257
Storage Stability	Three years stored at 73°F (23°C) and 50% RH in the original packaging		

Adhesion Properties - Ultimate Peel from test method: ASTM D 903 (15 min. dwell)
a. 180° degree peel

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

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Product Performance and Suitability

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