

# 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 surfaces it connects to
- 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™

## TT 200 Black H-502

### 150 Poly H-9 44PP-8

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/in²		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

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#### 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.

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