

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 #: FLX069515



Product:

**Flexcon® Omni-Wave™
TT 200 Black H-502
400 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
- 4.0 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

400 Poly H-9 44PP-8

PRODUCT DATA	VALUE	TEST METHOD
Physical Properties		
Thickness (Mils[microns])	Liner	400 Poly H-9: 4.0 (102) +/- 5%
	Adhesive	1.9-2.1 (48-53) +/- 0.1 (3)
	Liner	44PP-8: 3.0 (76) +/- 10%
Adhesion Properties		
Ultimate Peel from	Average	
	Oz/In	(N/m)
Stainless Steel	13	(143)
Expected Shear		ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
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 100 Ohms/square	ASTM D 257
Storage Stability	Three years stored at 70°F (21°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.

For guidance only, not to be used for setting specifications. The data presented are based on three or less production runs.

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Product Performance and Suitability

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