



SimpleEEG Dry Polymeric Foam Electrode

Product Details

The *SimpleEEG* electrodes are designed with a foam core coated with the polymeric *FlexElec* technology. This results in electrodes that are soft, dry, and reusable, suitable for both short-term and long-term stimulation and recording applications. The foam core combined with gel-free application provides comfort, making these electrodes well-suited for extended use during measurements.

Key Benefits

- > Dry, no gel required
- > Reusable & moisture resistant
- > Flexible, body conforming
- > Long-term measurements

Applications

- > EEG, ECG & EMG
- > Sleep studies
- > Sporting

Specifications

Materials	
Core	Polyurethane foam
Coating	Polymeric <i>FlexElec</i>
Dimensions	
Electrode diameter	9.5 mm
Electrode height	2.5 mm
Electrode-skin contact area	0.71 mm ²
Weight	50 mg
Connection	
Available form factors for connection:	
<div>> Wired only</div> <div>> Wired with adhesive film back</div> <div>> Stud with silicone bud back</div>	
Electrical data	
Skin-contact impedance* - typical	
100 Hz	3.75 MΩ

1 kHz	1.00 MΩ
Impedance stabilization time	5 min
Reusability	
Typical number of uses	20
Typical use time	7 days
Shelf life	6 months
Safety	
Cytotoxicity test (ISO 10993-5)	No cytotoxic effects (in-house) ; external testing underway
Skin irritation	No redness or irritation; minimal indentation, resolved within 30 min
	<div><div>Baseline</div><div>After 6h</div></div>

*Skin contact impedance values measured on human subjects using the reference electrode as both the reference and counter electrodes. Impedance values will vary from subject to subject based on the relative fit at each electrode site.