



Description

The base of all our products is the knowhow on designing and manufacturing flexible electronics based on polymer substrates. These can be widely used as flexible and stretchable circuit boards, sensor elements, actuators or anything else you can imagine. The ability to form multilayered, polymer-based circuits enables you to build electric active structures with extraordinary features.

- ◆ High flexibility with strain up to 300 % and being still conductive
- ◆ Combinable with established PCB technology (FR4, Flex etc.)
- ◆ Extremely robust against environmental influences
- ◆ High material compatibility
- ◆ Different electrode materials available
- ◆ High transparency (passive areas)
- ◆ Cost effective processing

Feel free to contact us and discuss your needs and ideas!

Technical Data

Base material		Fully cross-linked, No release of byproducts or plasticizers
Strain	Up to 300 %	Active areas, depends on electrode material
	Up to 350 %	Passive areas without electrodes
Conductivity	Down to 0.01 Ohms/sq/mil	Different materials available
Spatial resolution	Min. 1.5 mm	distance between structures
Size	220 mm x 120 mm	Maximum processable area (LxW)
Layers	>10	
Insulator Permittivity	Ca. 2.8 @	@ 1k Hz
Insulator thickness	25 µm - 250 µm	Deliverable with 80 µm thick carrier (PET)
Electrode Thickness	10 µm - 100 µm	
Temperature range	-70 – +260 °C	Operating Range