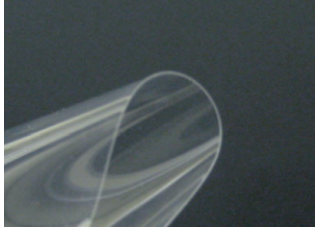




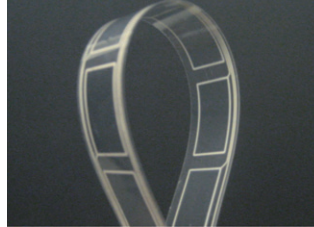
Capacitive Touch Sensor

Four Main Features



1 Space-Saving

A sensor as thin as a film.
Capable of using in a small gap.
Save space.



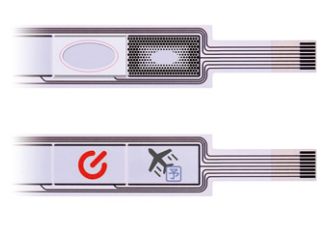
2 Flexible

All we use is soft polymer-based material. Applicable to a bended application or for setting on a curved surface.



3 Light Permeable

The transparent electrode is made by conductive polymer. So it is suitable for a backlight use with the transparency.



4 Expandable

The function or design is expandable with adding a screen print process.

Benefits

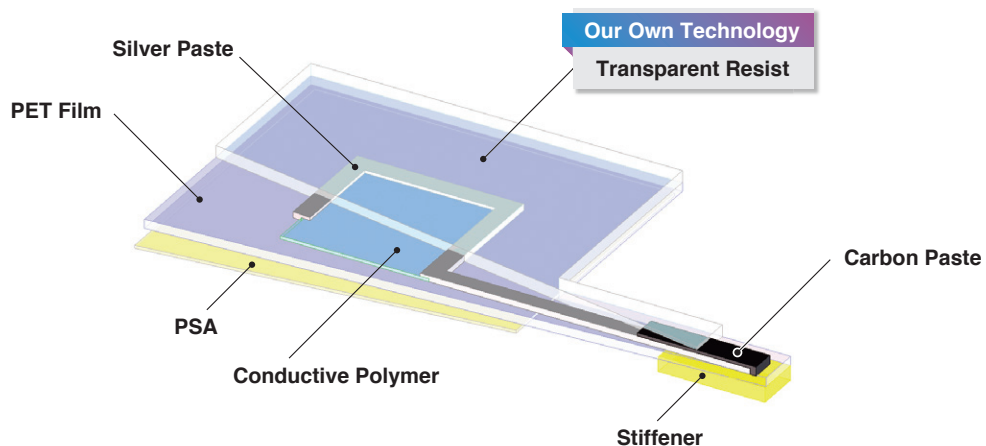
- **Various Input Operations**
Touching, sliding, wheeling, approaching
- **Flexibility of The Applied Position**
Available for a curved surface, thin/small space
- **Excellent Flexibility for Custom Design**
Best for flat and seamless designs
- **Durability**
No deterioration by key stroking
- **Help Reduce The Quantity of The Parts**



Applications

- Car air-conditioner
- Car navigation
- Cooking appliances
- Telephone
- Karaoke
- Room lamps

Basic Structure





Touch Sensor Specification

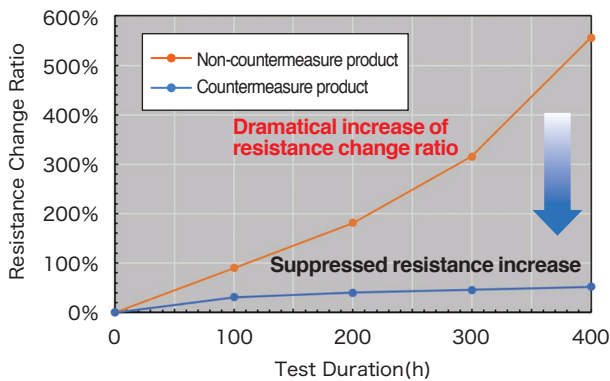
Operating Temperature Range	-30°C ~ +80°C
Storage Temperature Range	-40°C ~ +90°C
Static Electrical Characteristics	DIF value : Standard value ±15%
Insulation Resistance Value	DC30V applied : 30MΩ or higher
Permeability	80±5%

Touch Sensor Reliability

① Light Resistance

Prevention of PEDOT Degradation

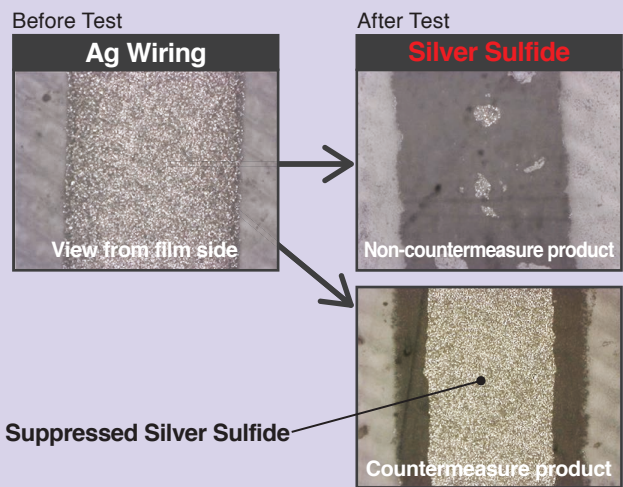
[Light Resistance Test] PEDOT Resistance Change Ratio



Test condition : Sunshine carbon arc , 63°C , 400h

② Sulfur Resistance

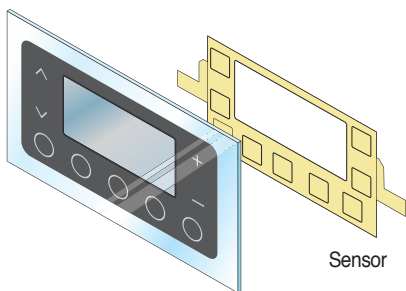
Prevention of Ag Wiring Sulfide Prevention



Test condition : S gas 6ppm, 85°C, 288h

Product Example

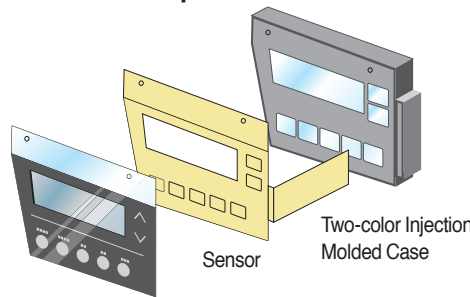
[Product Example #1]



Transparent Molded part + Back Side Printed Panel

- Uniform management for both cosmetic parts and functional parts.

[Product Example #2]



Printed Sheet

- Providing shading function to two-color injection molded case.
- Luminance, transparency ratio are adjustable by transparent molded part and print tuning.
- Enabling to reduce part count and assembly process by piling up cosmetic printing on a sensor.

