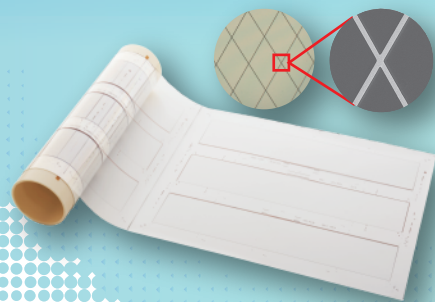


## Double-sided full wiring Metal Mesh Transparent Conductive Film

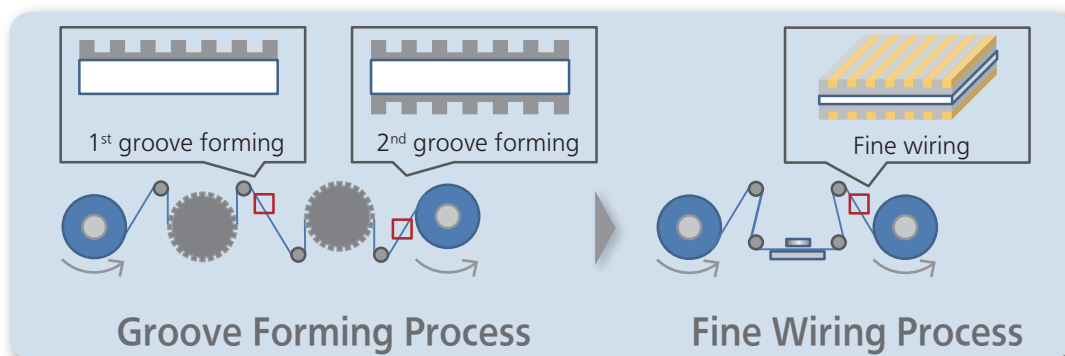


For those customers looking for transparent conductive film for various kinds of applications such as touch sensors, we have prepared a unique double-sided full wiring metal mesh based "Transparent Conductive Film" combining low resistance and high transmissivity.

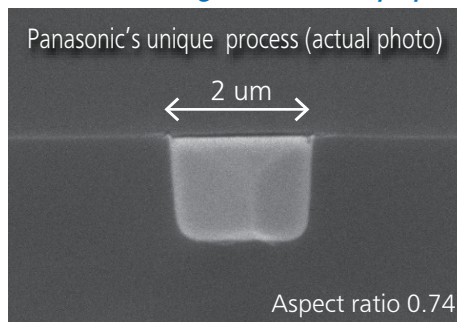
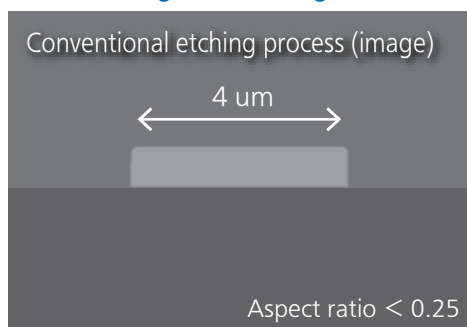
### Features

- Achieving a high wiring aspect ratio to contribute to higher image quality and larger size display
- Double-sided full wiring that offers high coordinate accuracy and improved flexibility
- Less environmental impact by reduction of display's power consumption and materials used

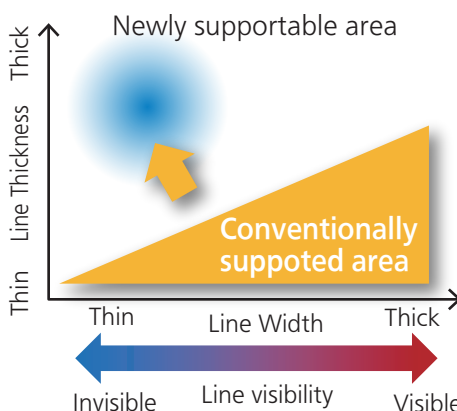
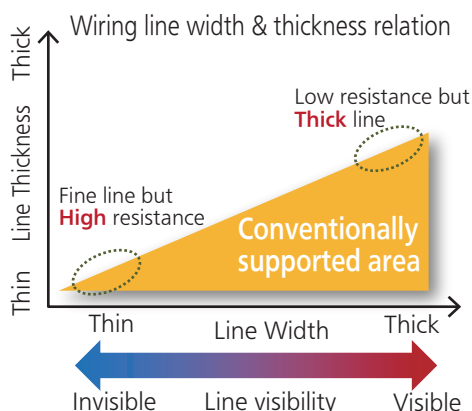
[Unique Roll-to-Roll Double-Sided Wiring] Fine grooves formed on both sides of film are filled with metal to form wiring



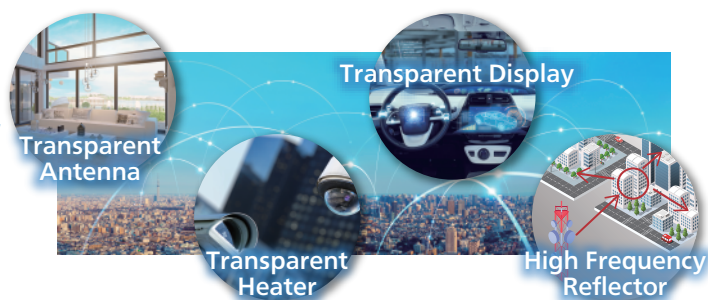
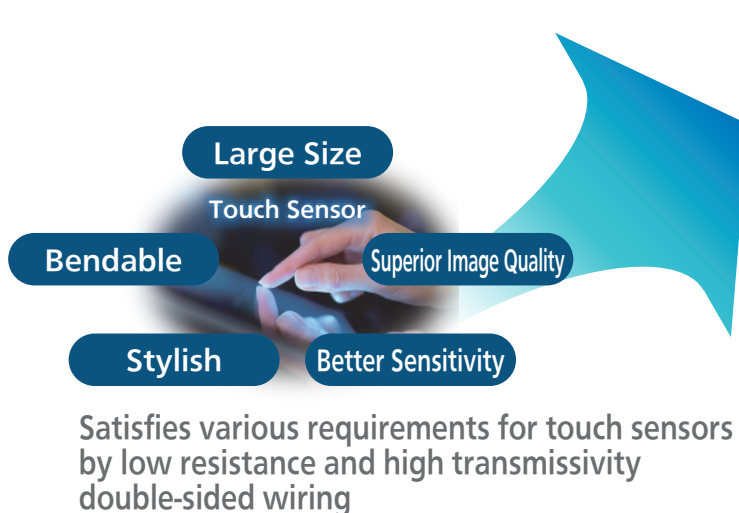
[High Aspect Ratio Wiring Line Forming] Realizes both low resistance & high transmissivity by fine and deep wire forming



$$\text{Aspect ratio} = \frac{\text{Line depth}}{\text{Line width}}$$



## Applications / Solutions



Supports further new requirements for transparent conductive film, which are generated by highly advanced information/telecommunication society

## Specifications

Approximately 4% improvement in transmissivity compared to conventional etching process

Items		Conventional etching process Metal mesh *		Panasonic's unique process Metal mesh *	
Visibility	Wiring Line Width	×	4um	◎	≤2um
Transmissivity		○	90.3%	◎	94.1%
Sheet Resistance		◎	2Ω/sq.	◎	2Ω/sq.
Frame Wiring (L/S)		△	15/15um	◎	8/8um
Base Material		◎	PET and COP	◎	PET, PC and COP
Bendability		◎	≥R2mm	◎	≥R2mm

\* Comparison between our own prototypes

## Dimensions (Custom design) / Supply Form



- Max. product size: 580mm (W) × 700mm (L)  
(Film Thickness: 50um)
- Available in either Roll or sheet form
- Available with FPC and/or with cover lens

## Sample Request

Please contact our sales representative for request

■ Panasonic Industry Co., Ltd. Electromechanical Control Business Division  
1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan  
[industrial.panasonic.com/ac/e/](http://industrial.panasonic.com/ac/e/)