

## Transparent Electrode Paste DENATRON SP-801

### Features

- Screen printing ink
- Based on conductive polymer (PEDOT:PSS)
- High conductivity & High clear
- Direct patterning available (Line&Space 200μm)

### Applications

- Touch sensor
- Touch switch
- Film heater
- Electromagnetic wave shield



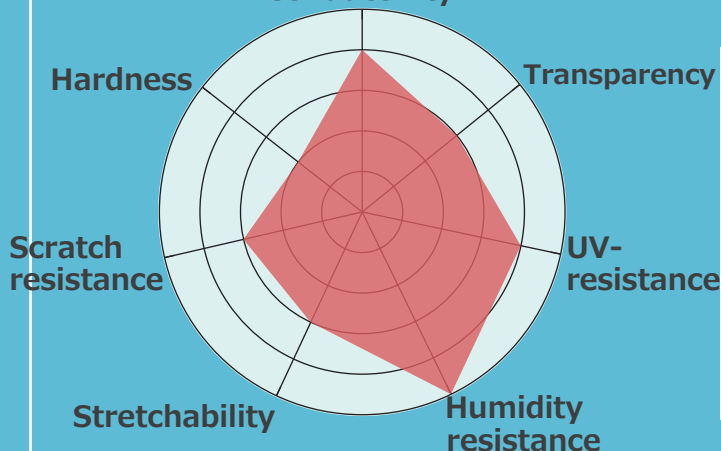
### Liquid properties

Item	SP-801
Appearance	Dark blue
Main components	Conductive polymer Binder resin
Main solvent	Water · Propylene glycol
pH	2~3
Viscosity	1,000~3,000mPa · s
Shelf life (1~25°C)	> 12 months



### Coating film properties

#### Conductivity



	Mesh number	Usage (cc/m <sup>2</sup> )	Sheet resistance (Ω/sq.)	Total transmittance (%)	L/S (μm)
ex.1	460	7	500	99	200/200
ex.2	300	10	300	98	
ex.3	255	13	200	97	

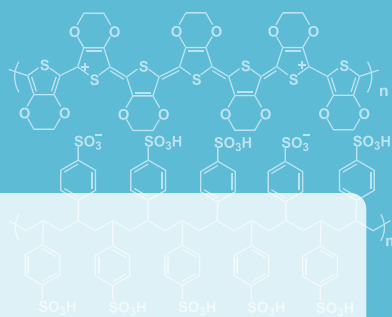
#### Test condition

UV-resistance test :UV irradiation 1000hr  
 Humidity resistance test :85°C 85%RH 1000hr  
 Scratch resistance test :Rubbing with a cotton, Water, Solvent

Please accept the direction from 'Safety Data Sheet' when you use. Here published properties and dates are not assured but only represented. We apologize the published stuffs might be changed without any notice.

More Information

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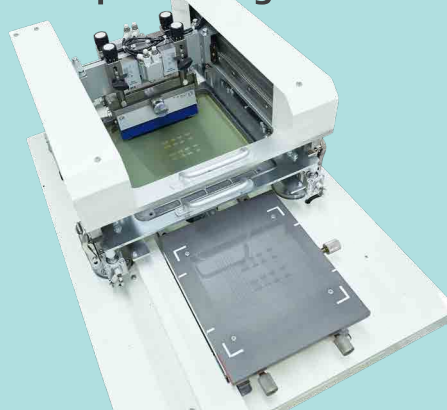
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### The direction how to ready ink ○

#### 1 Dispersion mixer



#### 3 Screen direct patterning



- 1 Mixing and homogenizing the viscosity.  
※ Recommend condition : Dispersion mixer , 1,500rpm , 10min
- 2 Add dilution solvent as needed, then mixing.  
※ Recommend solvent : Propylene Glycol
- 3 Test print several times, then print on a screen direct patterning.

### ○ Coating method ○

<b>Printing condition</b>	Squeegee hardness 70~80°, Squeegee angle 50~80°, Squeegee speed 200~350mm/s, Snap-off distance 2~4mm, Mesh#200~460
<b>Substrate</b>	Plastic film (PET, PMMA, PC, etc.) and glass
<b>Dry condition</b>	80°C to 140°C , 2min to 5min

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