

## Transparent antistatic coating solution DENATRON P-400MP

### Features

- Based on conductive polymer (PEDOT:PSS)
- Excellent in abrasion resistance and solvent resistance
- Excellent in adhesion to various substrates
- Inhibit deterioration of conductive polymer

### Applications

- Antistatic coating**
- Optical film
  - Packaging film
  - Industrial materials

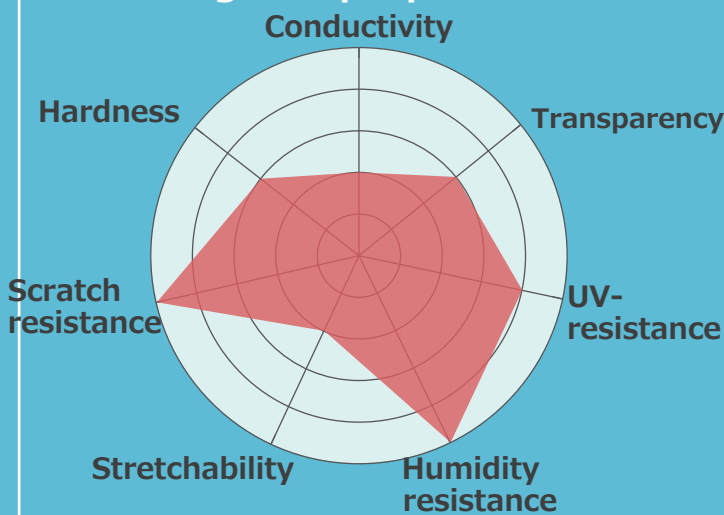
### Liquid properties

Item	P-400MP-A	P-400MP-B
Appearance	Dark blue	Milky white
Main components	Conductive polymer	Cross-linking agent
Main solvent	Water , Alcohol	Water
pH	6 ~ 8	6 ~ 8
Viscosity	10 ~ 30mPa · s	5 ~ 25mPa · s
Shelf life (1~25°C)	> 6 months	> 6 months

Mix  
»»

P-400MP
Mixing ratio (wt%) A : B = 4 : 1
pH = 6 ~ 8
Solid content 7wt%
Shelf life About a week ※30%Ethanol , 5 fold dilution

### Coating film properties



	Mixing ratio(wt%)			Usage (cc/m <sup>2</sup> )	Sheet resistance (Ω/sq.)	Total transmittance (%)
	A	B	Dilution solvent			
ex.1	16	4	80	5	2×10 <sup>7</sup>	>99
ex.2	4	1	95	5	3×10 <sup>8</sup>	>99
ex.3	4	1	95	4	1×10 <sup>9</sup>	>99

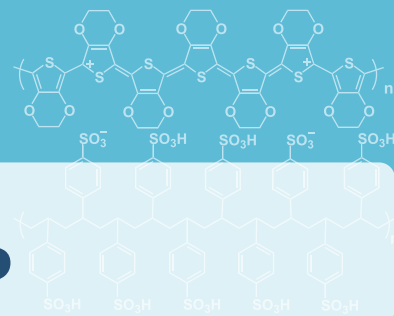
#### Test condition

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

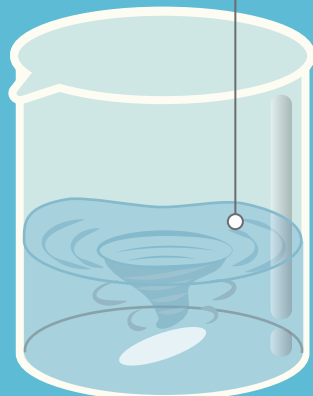
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### The direction how to ready ink

#### Dilution solvent



#### P-400MP-B



#### P-400MP-A



#### 1 Ready for dilution solvent.

※ Recommended solvent :  
30% Hydrous Ethanol.  
(Water 70wt%+Ethanol 30wt%)

#### 2 Add P-400MP-B with mixing.

#### 3 Add P-400MP-A slowly with mixing.

### Coating method

#### 1 Can be used with a variety of coating method.

Coating method such as wire bar coaters, spin coaters, gravure coaters, spray coaters, dip coaters.

Recommended substrates are plastic film (PET, PMMA, TAC, PC, etc.) and glass.

#### 2 Dry for 1 minutes to 2 minutes using a oven at 120°C to 130°C.

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