

Transparent antistatic coating solution DENATRON P-560ST

Features

- Based on conductive polymer (PEDOT:PSS)
- Excellent stretchability
- Excellent adhesion with various substrates
- Suitable for in-line coating

Applications

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

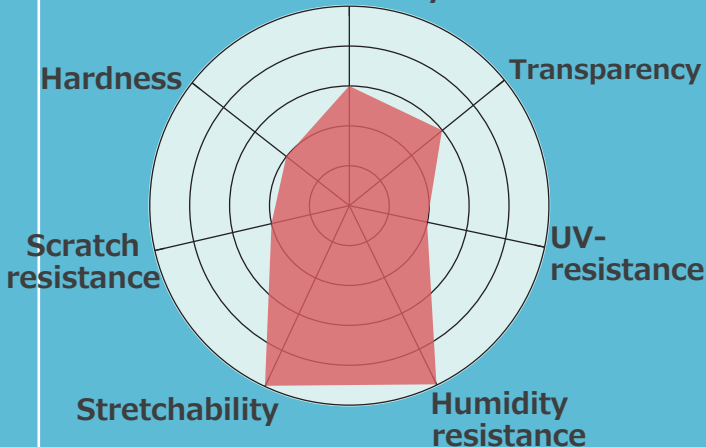
Liquid properties

| | P-560ST |
|---------------------|-----------------------------|
| Appearance | Dark blue |
| Main components | Conductive polymer Additive |
| Main solvent | Water |
| pH | 6 ~ 9 |
| Viscosity | 10 ~ 30 mPa · s |
| Shelf life (5°C) | 12 months |
| Shelf life (25°C) | 4 months |



Coating film properties

Conductivity

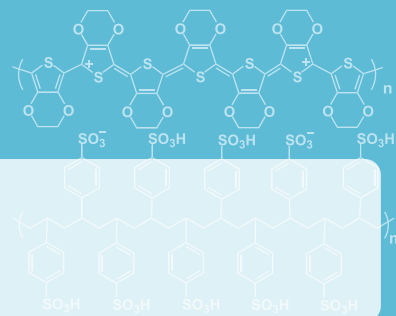


| | Mixing ratio(wt%) | | Usage (cc/m ²) | Sheet resistance (Ω/sq.) | Total transmittance (%) |
|------|-------------------|------------------|----------------------------|--------------------------|-------------------------|
| | P-560ST | Dilution solvent | | | |
| ex.1 | 100 | 0 | 4 | 3×10 ³ | 99 |
| ex.2 | 25 | 75 | 4 | 1×10 ⁵ | >99 |
| ex.3 | 10 | 90 | 4 | 2×10 ⁶ | >99 |

Test condition

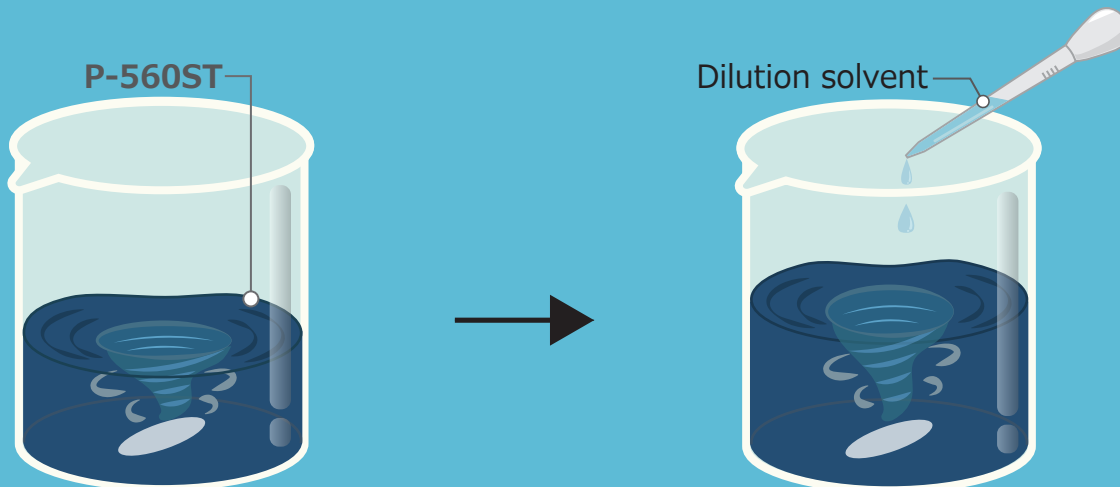
- UV-resistance test :UV irradiation 1000hr
- Humidity resistance test :85°C 85%RH 1000hr
- Scratch resistance test :Rubbing with a cotton, Water, Solvent

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The direction how to ready ink



1 Ready for P-560ST,
and start to mixing.

2 Add dilution solvent slowly
with mixing.

※ Recommended solvent : 50% Hydrous Ethanol.
(Water 50wt%+Ethanol 50wt%)

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 slit coaters, dip coaters.
Recommended substrates are plastic film(PET, HIPS, PC, PMMA, etc.) and glass.
- 2** Dry for 0.5 minutes to 2 minutes using a oven at 110°C to 150°C.

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