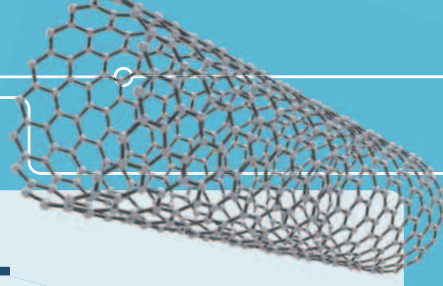
Denatron

Conductive Coating material



Transparent antistatic coating solution

DENATRON C-169PF

Features

- Based on Single-walled carbon nanotube (SW-CNT)
- Excellent in UV-resistance
- Excellent in abrasion resistance and solvent resistance
- Excellent in adhesion to various substrates

Applications

Antistatic coating

- Optical film
- Packaging film
- Industrial materials

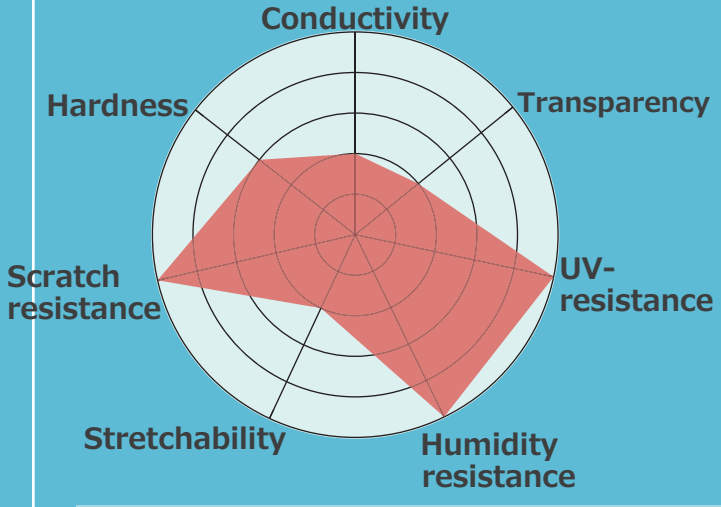
Liquid properties

Item	C-169PF-A	C-169PF-B
Appearance	Black	Yellow translucent
Main components	Conductive agent	Cross-linking agent
Main solvent	Water・Alcohol	Water
pH	2 ~ 3	7 ~ 8
Viscosity	30 ~ 40 mPa・s	3 ~ 13 mPa・s
Shelf life (1~25℃)	> 6 months	> 6 months

Mix 》

C-169PF
Mixing ratio (wt%) **A : B=3 : 2**
pH=5 ~ 7
Solid content 4wt%
Shelf life About a week ※50%Ethanol , 5 fold dilution

Coating film properties



	Mixing ratio(wt%) A	B	Dilution solvent	Usage (cc/m^2)	Sheet resistance (Ω/sq.)	Total transmittance (%)
ex.1	30	20	50	10	3×10^5	98
ex.2	3	2	95	4	1×10^7	＞99
ex.3	1.5	1	97.5	5	1×10^9	＞99

■**Test condition**
UV-resistance test :UV irradiation 1000hr
Humidity resistance test :85℃ 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.

DENATRON website

More Information

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Nagase ChemteX
NAGASE Group

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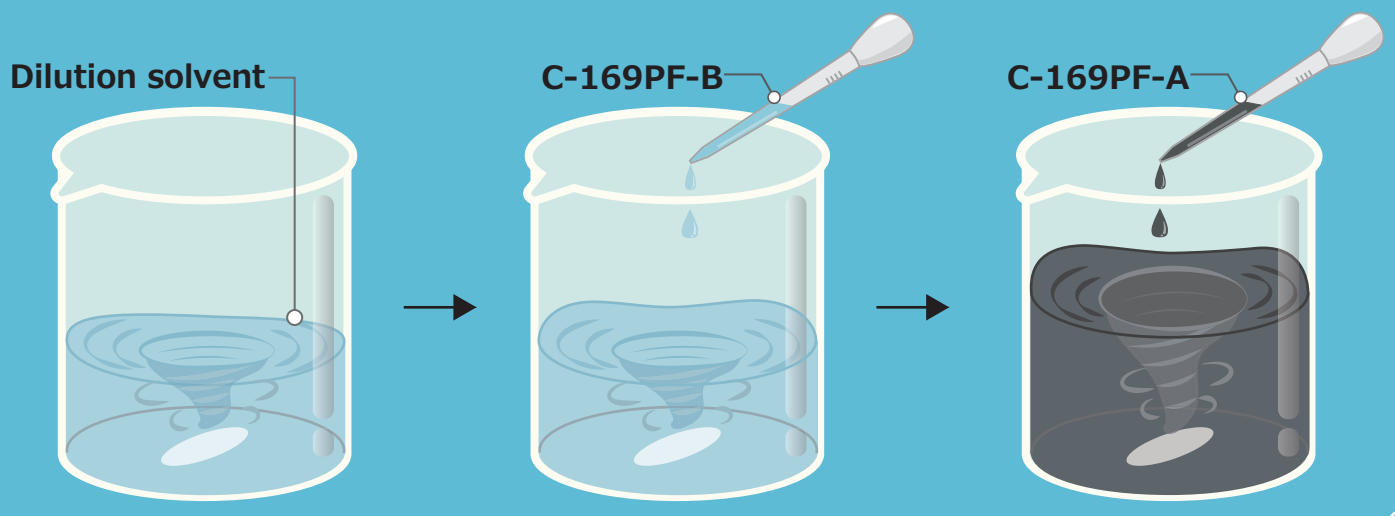
The direction how to ready ink



1. Ready for dilution solvent.
   ※ Recommended solvent :
   50% Hydrous Ethanol.
   (Water 50wt%+Ethanol 50wt%)
2. Add C-169PF-B with mixing.
3. Add C-169PF-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, slit coaters, dip coaters.
   Recommended substrates are plastic film(PET, PMMA, TAC, PC, etc.) and glass.
2. Dry for 0.5 minutes to 2 minutes using a oven at 110℃ to 130℃.

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More Information

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