



Single-Walled Carbon Nanotube

Single-walled carbon nanotube dispersion

SWDseries

Features

- It can give conductivity while maintaining transparency.
- In addition to a high concentration and low viscosity, good dispersion is also achieved.
- The binder-free design means that it can be used for various purposes.
- It has excellent stability over time and can be stored for long periods.

Solvent Type

Representative characteristics

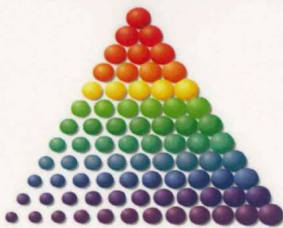
Item name	SWD-B01	SWD-K01	SWD-P01
CNT concentration (wt%)	0.2	0.2	0.2
Solvent composition	Butyl acetate	MEK	PMA
Viscosity (mPa·s)	15	15	15

■ Coating film characteristics

SWD series coating PET film

MWCNT dispersion coating PET film

RESINO COLOR



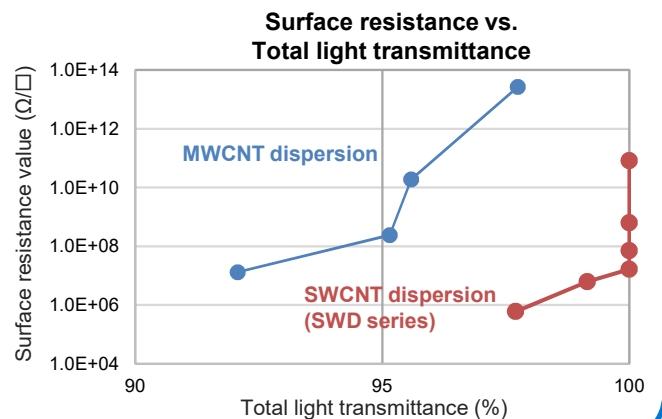
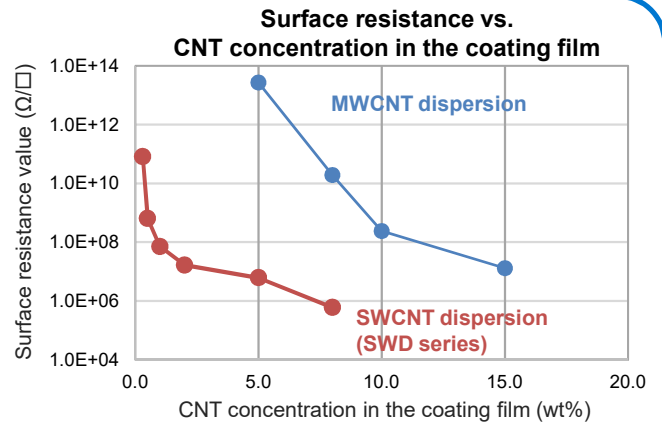
RESINO COLOR



CNT type	SW _{CNT}	MW _{CNT}
CNT concentration (wt%)	0.5	10.0
Surface resistance value (Ω/□)	6.33×10 ⁸	2.37×10 ⁸
Total light transmittance (%)	100.0	95.2

*The physical properties shown are representative values.

Resin used: Acrylic resin
 Coating film thickness: Dry 0.1μm or less
 Total light transmittance: JIS K 7361, D65 light source
 Blank substrate: 100μm PET film



Applications

High conductivity can be expected while maintaining transparency

Antistatic material

(Displays, electromagnetic wave shielding, OA related)

Excellent thermal conductivity can be expected

Process improvement

(Servers, power devices)

[Remarks]

Date on this page can't be used for specification purposes.
 Please evaluate the sufficient performance of the sample under the conditions of use.

Head Office TEL : +81-6-6301-0636 FAX : +81-6-6308-6638
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Water Type

Representative characteristics

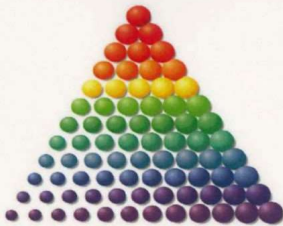
Item name	SWD-W01
CNT concentration (wt%)	0.2
Solvent composition	Water
Viscosity (mPa·s)	20

■ Coating film characteristics

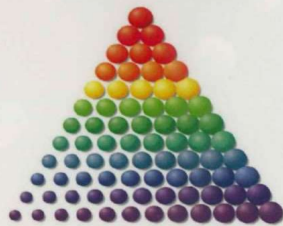
SWD series coating PET film

MWCNT dispersion coating PET film

RESINO COLOR



RESINO COLOR

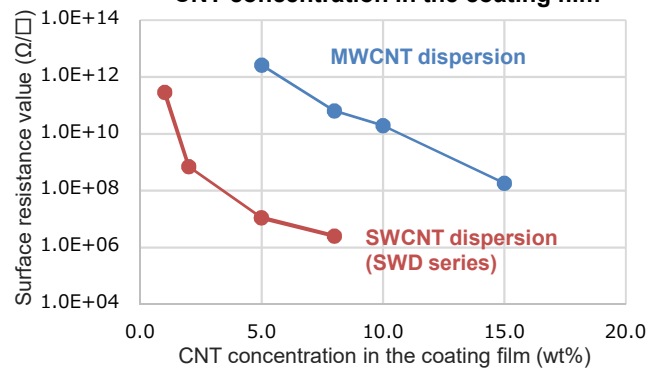


CNT type	SW _{CNT}	MW _{CNT}
CNT concentration (wt%)	2.0	15.0
Surface resistance value (Ω/□)	7.07×10 ⁸	1.82×10 ⁸
Total light transmittance (%)	99.18	89.70

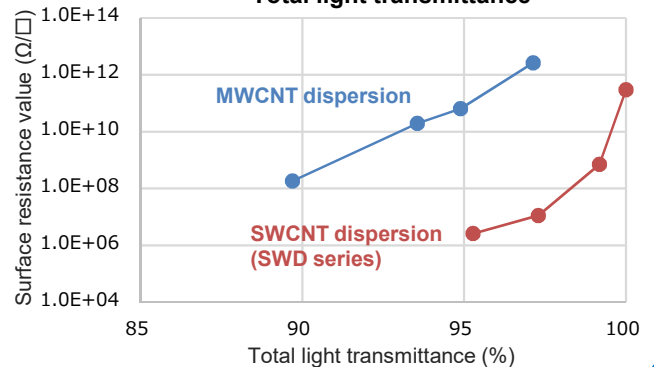
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Surface resistance vs. CNT concentration in the coating film



Surface resistance vs. Total light transmittance



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