Single-Walled Carbon Nanotube



Single-walled carbon nanotube dispersion SWDseries

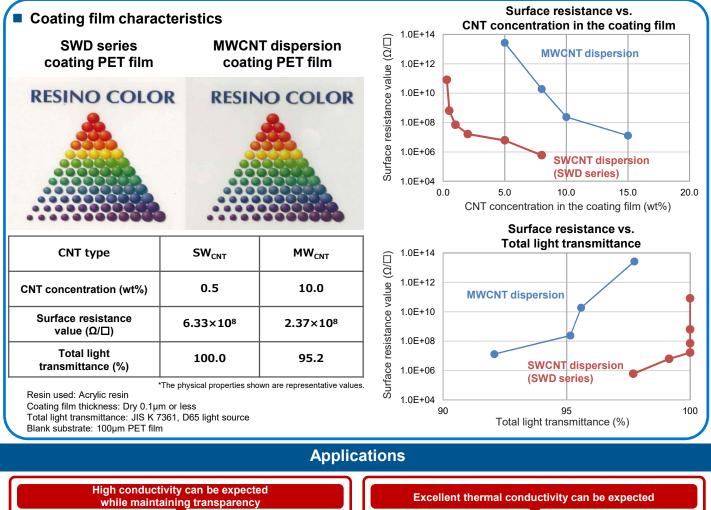
Features

- 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	РМА
Viscosity (mPa∙s)	15	15	15



Antistatic material

(Displays, electromagnetic wave shielding, OA related)

Process improvement

(Servers, power devices)

TEL : +81-6-6301-0636 FAX : +81-6-6308-6638

TEL : +81-3-3634-1746 FAX : +81-3-3633-6929

[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.

2020.11.27 Ver.2.2



RESINO COLOR INDUSTRY CO., LTD.

Head Office

Tokyo Office

http://www.resinocolor.co.jp/

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Representative characteristics

SwD series coating PET film MWCNT dispersion coating PET film Image: Content autor in the coating initial coating PET film RESINO COLOR RESINO COLOR SwCNT dispersion (SWD series) Mwcnt dispersion (SWD series) CNT type SW _{CNT} MW _{CNT} Mw _{CNT} Surface resistance value (Q/CI) 7.07×10 ^s 1.82×10 ^s 1.0E+10 Total light ransmittance (%) 99.18 89.70 1.0E+10 SwCNT dispersion (SWD series)	Item name			SWD-W01	
Viscosity (mPa·s)20Coating film characteristics SWD series coating PET filmSwCNT dispersion coating PET filmRESINO COLOR Image: CNT typeRESINO COLOR Image: CNT typeSwCNT dispersion coating PET filmResinue CNT typeSWcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeCNT concentration (wt%)2.015.01.0E+12 ulue (D/CI)SwChT dispersion (SWD series)Surface resistance (SWD series)SwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeCNT concentration (wt%)2.015.01.0E+12 Ulue (D/CI)SwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrMWcwr Image: CNT typeSwcwrSwcwr Image: CNT typeSwcwrSwcwr Image: CNT typeSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcwrSwcWrSwcwr <th colspan="3">CNT concentration (wt%)</th> <th colspan="2">0.2</th>	CNT concentration (wt%)			0.2	
Surface resistance vs. CNT concentration in the coating film SWD series coating PET film MWCNT dispersion coating PET film RESINO COLOR RESINO COLOR Vitrace resistance Vitrace resistance CNT type SWC _{NT} MWC _{NT} CNT concentration in the coating film (wt%) Surface resistance vs. (SWD series) CNT type SWC _{NT} MWC _{NT} Surface resistance value (Q/CI) Surface resistance vs. (SWD series) Surface resistance vs. Total light transmittance Total light transmittance (%) 99.18 89.70 "Tep tysical properties shown are representative values. Coating film thickness: Dy 0.1µm or less Total light transmittance Surface resistance vs. Total light transmittance Surface resistance vs. Total light transmittance "Tep tysical properties shown are representative values. Coating film thickness: Dy 0.1µm or less Total light transmittance Surface resistance vs. Total light transmittance Surface resistance vs. Total light transmittance Surface resistance vs. Total light transmittance "Tep tysical properties shown are representative values. Coating film thickness: Dy 0.1µm or less Total light transmittance Surface resistance vs. Total light transmittance Surface resistance vs. Total light transmittance Surface resistance vs. Total light transmittance "Total light transmitance Surface resistance vs. Tot	•				
Coating film characteristics SWD series SWD series MWCNT dispersion coating PET film RESINO COLOR RESINO COL					
SWD series coating PET film MWCNT dispersion coating PET film RESINO COLOR RESINO COLOR Image: Control of the series of the s	Coating film charac	teristics		CNT concentration in the costing film	
CNT type SW _{CNT} MW _{CNT} CNT concentration (wt%) 2.0 15.0 5.0 10.0 15.0 20.0 Surface resistance value (Ω/□) 7.07×10 ⁸ 1.82×10 ⁸ 1.0E+14 MWCNT dispersion MWCNT dispersion Total light transmittance (%) 99.18 89.70 1.0E+08 SWCNT dispersion SWCNT dispersion SWCNT dispersion SWCNT dispersion 1.0E+08 SWCNT dispersion SWCNT dispersion SWCNT dispersion 1.0E+08 SWCNT dispersion SWCNT dispersion SWCNT dispersion 1.0E+08 SWCNT dispersion SWCNT dispersion 1.0E+08 SWCNT dispersion SWCNT dispersion 1.0E+08 SWCNT dispersion 1.0E+04 ST				Image: Dispersion Image: Dispersion Image: Dispersion	
Total light transmittance: JIS K 7361, D65 light source	CNT type	SW _{CNT}	MW _{CNT}	0.0 5.0 10.0 15.0 20. CNT concentration in the coating film (wt%) Surface resistance vs.	
Total light transmittance: JIS K 7361, D65 light source	Surface resistance	-		MWCNT dispersion	
Total light transmittance: JIS K 7361, D65 light source	· · · · (,		00.70		
	Total light	99.18	89.70	to the second s	

while maintaining transparency

Antistatic material

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2020.11.27 Ver.1.0



RESINO COLOR INDUSTRY CO., LTD.

excellent thermal conductivity can be expected

Process improvement

(Servers, power devices)

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