



Excellent Conductivity and Resistance Stability

Carbon Nanotube Dispersion

[Features]

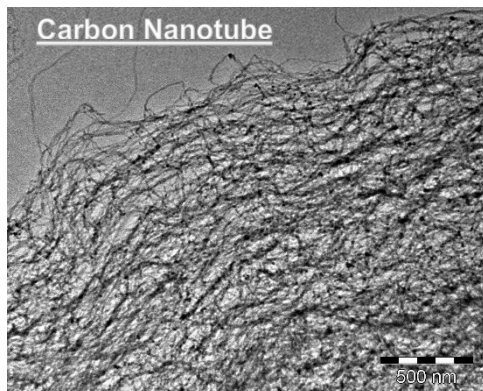
REC-SM-29 is a conductive ink with multi-walled carbon nanotubes dispersed in a solvent, and REC-WM-46 is dispersed in water. It demonstrates excellent performance in the stability of the medium-resistance range with a small addition amount.

- ① Compared to conductive carbon, stable conductivity can be achieved with a lower addition amount.
- ② It makes it possible to create a transparent conductive coating with minimal haze.

[Representative Characteristic Values]

Product Name	REC-SM-29	REC-WM-46
Solid Content (wt%)	6.0	5.0
Carbon Nanotube Concentration (wt%)	2.0	1.5
Solvent	MIBK	Water
Average Particle Size (μm) *	0.12	0.30
Average Particle Size After 1 Month (μm) *	0.14	0.28

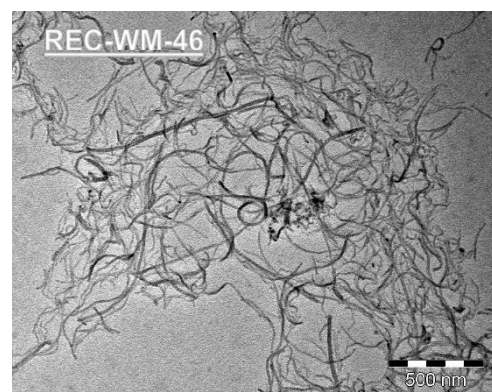
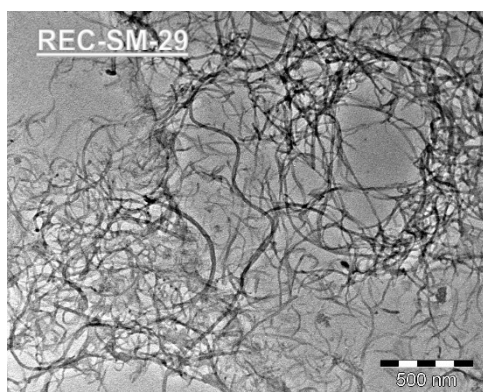
*Dynamic light scattering method, volume average diameter



Disperses the bundle structure of carbon nanotubes without cutting the fibers



Achieves high conductivity and low haze



TEM 50,000 ×

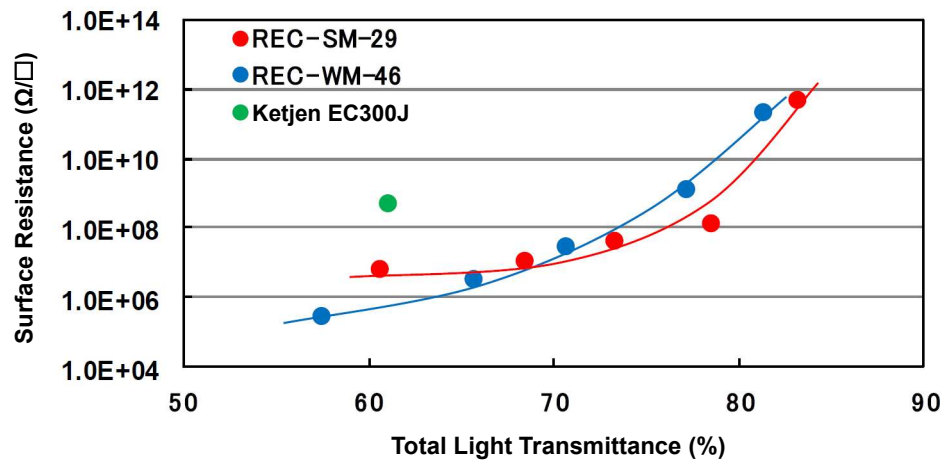
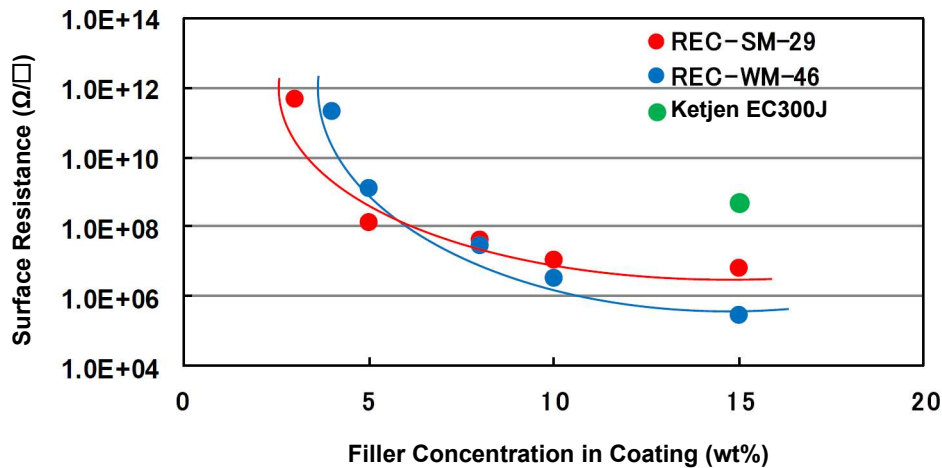
Product Name	REC-SM-29		REC-WM-46		Ketjenblack EC300J Dispersion	
Filler Concentration in Coating (wt%)	15	5	15	5	15	5
Surface Resistance (Ω/\square)	6.6E+6	1.4E+8	2.9E+5	1.3E+9	5.2E+8	Above 15 Powers
Total Light Transmittance (%)	60.6	78.5	57.5	77.2	61.0	78.2
Haze	3.06	2.04	4.51	2.41	8.33	4.77

Resin Used: Acrylic Resin

Coating Thickness: Dry 0.3-0.5 μm

Transmittance and Haze Measurement Method: JIS K 7105, C Light Source

PET film substrate properties: Transmittance 89.2%, Haze 1.90



[Notes]

Please ensure that the mixture does not agglomerate when mixed with the resin you are using. If agglomeration occurs, please consult us. If you have preferred solvents, feel free to contact us so that we may accommodate them.



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2013.4.5 Ver.3.1