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■ **Product Name:** KH SWCNT WS-ESD

■ **Specifications**

Description	Property
Solvent	Water
SWCNT Content	0.015 wt.%
Organic binder, etc.	< 0.1wt.%
Viscosity	< 30mpas ( at 10rpm, 25°C )

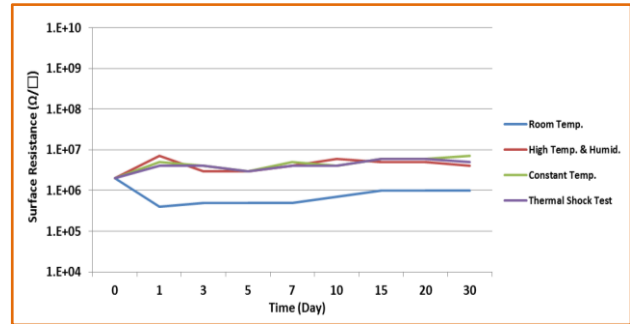
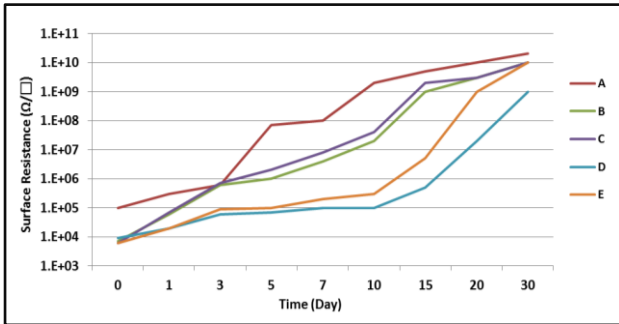
■ **Features**

- Water based SWCNT solution for ESD film, etc.
- Excellent durability
- Excellent optical characteristics
- Slot die, Gravure, Spray, Roller or Dipping Methods are possible

■ **Technical Data of ESD film**

Description	Property
Surface Resistance	$10^5 \Omega/\square$ (wet $8\mu\text{m}$ )
Haze	< 1.0
Transmittance	> 90%
Pencil Hardness	< 1H
Taping Test	100/100
Coating Method	Gravure & Slot die
Drying and Curing Method	100°C × 1 min
Available Substrate	PET

## ■ Reliability Test of ESD film for 30 days



### < Conducting Polymer on PET >

- SWCNT ESD film has better durability of surface resistance than conducting polymer film.
- High optical property of more than 90% transmittance

### < SWCNT on PET >

## ■ Applications

- Electrostatic discharge film
- Protection film for display
- LCD, PDP optical film
- Separator film