SN-100P

Transparent Electro-conductive Materials

SN-100P is a transparent electro-conductive material designed for applications requiring both high transparency and electrical conductivity. It consists of antimony-doped tin dioxide (ATO, SnO_2/Sb) with an average particle size of approximately 0.02 μm. Owing to its excellent near-infrared (NIR) absorption properties, SN-100P is also suitable for heat-ray shielding applications.

Basic Properties

	SN-100P (powder)	SN-100D (water dispersion)
Composition	SnO_2(Sb doped)	SnO_2(Sb doped)
Particle Size(μm)	0.01-0.03[1)]	0.085-0.120[2)]
Power Resistivity(Ωcm)[3)]	1-5	5-30[4)]
SSA(m^2/g)[5)]	65-80	70-100[4)]
pH	—	5.0-7.0
Concentration(wt%)	—	30

1)Primary particle size、2)Secondary particle size、3)9.8MPa compressed powder
4)Data obtained from evaporated powder 、5)BET method

Surface Resistivity

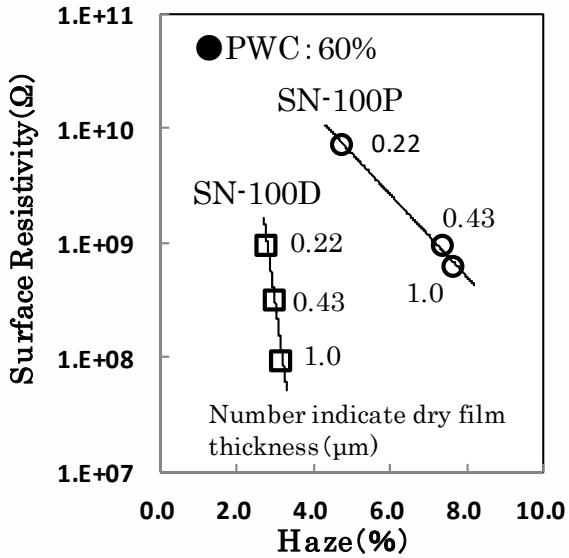


Fig. 1. Relationship between haze and Surface resistivity in UV curable resin

Near-Infrared Shielding Performance

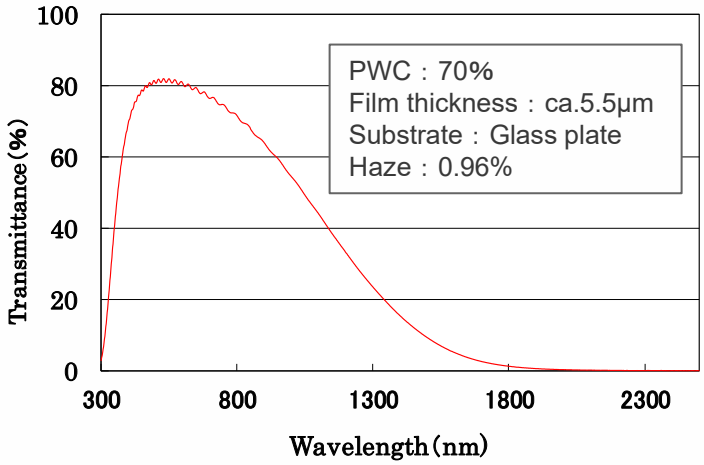


Fig. 2. Relationship between wave length and transparency

Local Insight, Global Impact

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