

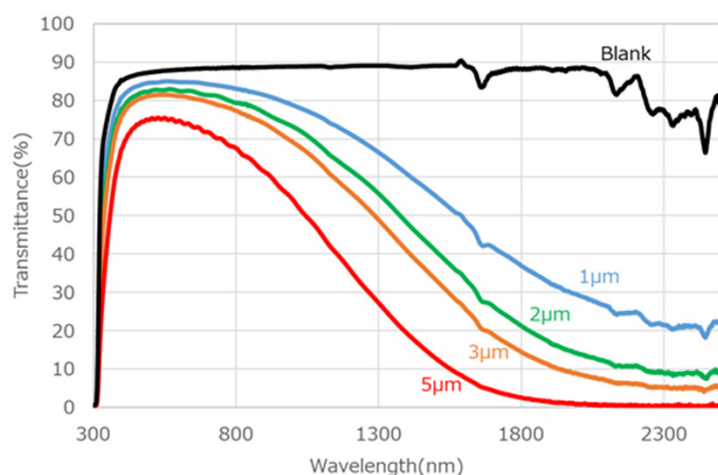
Transparent Heat-Shielding Material SN Series

The Transparent Heat-shielding Material SN Series is a line of powder and water dispersion products based on fine antimony-doped tin oxide (ATO) particles. When dispersed in water media, they exhibit excellent transparency and perform effectively as transparent heat-shielding materials by absorbing near-infrared radiation.

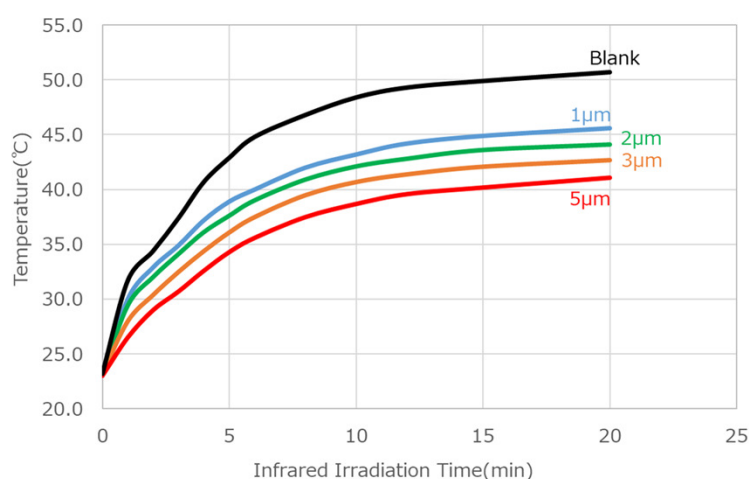
Basic Physical Properties

	SN-100P	SN-100D
	Powder	Water Dispersion
Filler	Sb-doped SnO ₂	Sb-doped SnO ₂
Solvent	-	water
Solid Content	-	30%
Particle Size(nm)	Primary Particle Size 10-30	Secondary Particle Size 85-120
Specific Surface Area (m ² /g)	65-80	-
pH	2.5-3.5	5.0-7.0

Transmittance Spectrum



Heat-Shielding Performance



	Blank Film	Film 1μm	Film 2μm	Film 3μm	Film 5μm
Visible Light Transmittance(%)	87.8	84.8	82.7	81.3	74.9
Solar Transmittance(%)	87.9	77.4	72.3	69.2	58.0
Haze (%)	1.6	2.4	2.7	2.9	3.0

Film Properties of SN-100P (Acrylic/Melamine Resin System, PWC: 70%, Coated on PET Film)

*Application Amount per 1μm Film Thickness (Filler Equivalent): 0.34 g/m²