

PRODUCT BRIEF

NanoPaint™ Conformal Transparent Conductive Coating

Features

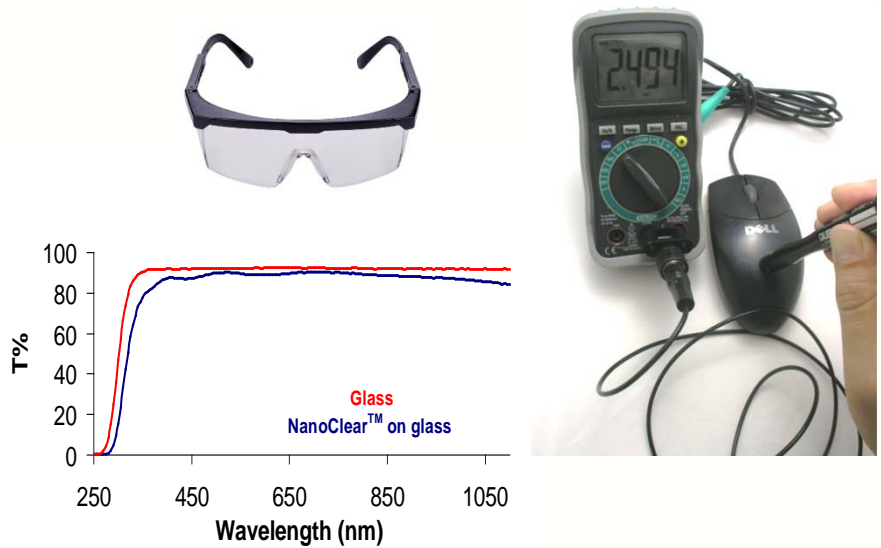
- High Transparency
- Conformal Coating
- Abrasion Resistant
- Wide Temperature
- Tunable Resistance
- Low cost

Applications

- ESD Coating
- EMI shielding
- Plastic overcoat
- Glass overcoat

Product Description

NanoPaint™ is a high-tech coating that can be applied to objects of nearly all shapes, sizes, and materials, including plastics and glass. The nanocomposite paint offers superior optical clarity, adhesion, and scratch resistance compared to alternative coating methods. Coated objects can be used at temperatures up to 230° C. NanoPaint™ coatings exhibit high visible transparency of >90%, have a refractive index of 1.6, and resist abrasion. Sheet resistance can be optimized for specific applications from 104 to 108 ohm/square. NanoPaint™ transparent conductive coating technology has a broad range of applications, including electrostatic dissipation (ESD), EMI shielding, and for opto-electronic devices. Samples are available for qualified customers.



Performance Specifications

NanoClear™	Min	Typical	Max	Unit
Operation Wavelength	300		>1000	nm
Index of Refraction	N=1.59	@	633	nm
Cure Temperature	70	80	100	C
Max Operating Temp			230	C
Sheet Resistance	10E4		10E8	Ohm/sq

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Preparation Procedure

NanoPaint™ paste is prepared by mixing nano-filler suspension and binder solution. Binder solution is first diluted with alcohol, and then nano-filler suspension is dropped into the binder solution under stirring. After the mixture is passed through 3 μm filter to remove small amount of large particles, a blue transparent NanoPaint™ paste will be obtained. The ratio of the nano-filler to the binder can be adjusted. E.g., 1.5g binder is diluted with 3.5g ethanol. The 2g nano-filler suspension is dropped into the binder and is stirred for 1h. The sheet resistance of a coating with a thickness of a few μm is about 0.5 MΩ/sq.

Coating Services

Nanotrons provides NanoPaint™ Conformal Transparent Conductive Coating services. Please contact us to discuss your applications.

Ordering Information

NPNT-	<input type="checkbox"/> <input type="checkbox"/>	kg	100g	10g	g
	Component	Weight (≥5g)			
	NF=nano-filler BD=binder				