NanoPaint™ Conformal Transparent Conductive Coating

(patent pending)

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 10^4 to 10^8 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.

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

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

Performance Specifications

<table>
<thead>
<tr>
<th>NanoClear™</th>
<th>Min</th>
<th>Typical</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Wavelength</td>
<td>300</td>
<td>&gt;1000</td>
<td>nm</td>
<td></td>
</tr>
<tr>
<td>Index of Refraction</td>
<td>N=1.59</td>
<td>@ 633</td>
<td>nm</td>
<td></td>
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<tr>
<td>Cure Temperature</td>
<td>70</td>
<td>80</td>
<td>100</td>
<td>C</td>
</tr>
<tr>
<td>Max Operating Temp</td>
<td>230</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheet Resistance</td>
<td>10E4</td>
<td>10E8</td>
<td>Ohm/sq</td>
<td></td>
</tr>
</tbody>
</table>

Glass
NanoClear™ on glass

Wavelength (nm)

Revision: 06-12
05-26-11

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