ORGACON™ aqueous pure conductive polymer dispersions

Agfa Materials genuine ICP1000 series offers the flexibility to formulate your own composition starting with pure PEDOT/PSS dispersion. Different performances are available depending on opto-electrical requirements. Agfa Materials can also assist and recommend best practices using almost 20 years of experience in producing and formulating PEDOT/PSS on large scale.

Typical Applications

<table>
<thead>
<tr>
<th>Grade</th>
<th>Typical applications</th>
<th>SER @ 90% TR * (Ohm/square)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICP 1010</td>
<td>Antistatic coating for optical films</td>
<td>380</td>
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<tr>
<td>ICP 1020</td>
<td>Antistatic coating for optical films</td>
<td>240</td>
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<tr>
<td>ICP 1050</td>
<td>ITO substitution, high-conductive coating</td>
<td>120</td>
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</table>

* Typical properties at 550 nm on PET with bar coater. Adding surfactant and Diethylene Glycol. Thermal cured at 130°C/6 min. TR = Transmittance, excludes substrate.

Properties

- Active chemical: 1.1 - 1.3% wt. PEDOT/PSS
- Color: blue
- pH: 1.5 - 2.5
- Shelf life: 12 months after fabrication date

Storage

- Store the product in sealed container between 4°C and 25°C

Health and Safety

- See Material Safety Data Sheet

Processing recommendations

- Optimal conductivity requires addition of 3-5 % wt. conductive enhancers (DEG, DMSO, ...)
- Add surfactant after dilution for adjusting surface energy
- Dilute with DI water or compatible solvent
- Pre-coated or pre-treated substrate with corona- or plasma treatment increase adhesion
- Contact us for more
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