

Transparent conductive coating

FLEXIBLE, TRANSPARENT, AND HIGHLY CONDUCTIVE COATING

HeiQ Xpectra OPV is a transparent conductive coating designed for flexible and wearable electronics such as organic photovoltaics (OPV). The coatings are characterized by the combination of high conductivity and transparency with a haze value of less than 5%.

There is growing demand for high-performance transparent conductive coatings. HeiQ Xpectra OPV provides a scalable, roll-to-roll compatible solution for cost-efficient production and seamless integration into flexible electronic applications.

HOW DOES IT WORK?

HeiQ Xpectra OPV is a highly effective conductive coating based on a network of embedded precious metal wires in a flexible, transparent matrix. HeiQ Xpectra OPV has been successfully tested as transparent electrodes.

It delivers:

- High conductivity for efficient charge transport
- High transparency with a haze value of less than 5%
- Low processing temperature, making it compatible with flexible substrates
- Roll-to-roll compatibility for scalable OPV production





Development Partners











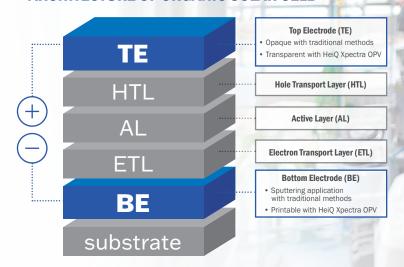
TRANSPARENT. FLEXIBLE. POWERFUL.

OUTSTANDING QUALITIES

- High conductivity, high transparency: Available in <10 Ω/sq , >83% TT and <25 Ω/sq , >88% TT versions
- Low haze (<5%):
 <p>Maintains optical clarity while ensuring efficient charge transport
- Flexible:
 Adapts to bendable substrates for next-generation solar and electronic applications
- Scalable: Supports roll-to-roll processing for cost-efficient, high-volume production
- Processable at low temperatures:

 Compatible with various materials and substrates
- Versatile formulation:
 Available in aqueous and nonaqueous solvents for different processing needs

ARCHITECTURE OF ORGANIC SOLAR CELL



Are you interested in HeiQ Xpectra OPV? Get in touch!

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