

Red Diamond 620s Spin-coating OLED Fluid Product Data Sheet

Version 2

Polymertronic' organic light emitting diode (OLED) emissive layer can be deposited by spin-coating methodology. It can be spin coated onto poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) (PEDOT:PSS).

Benefits Of Spin-Coating Fluid

1. Simple methodology
2. Film thickness as low as 100nm
3. Works with Polymertronics' OLED Science Kits



How Spin Coated OLEDs Work

This solution is the emissive layer of the active portion for use in a multi-layer organic electronic device. Wherein the active portion is between the anode and cathode layers. The light emitting material is solution based in a volatile solvent carrier. The carrier quickly evaporates during the spin-coating process, leaving a uniform film across a PEDOT:PSS coated substrate.

Spin coating is a means of depositing a thin film, on a flat substrate, that is uniform across its surface. The substrate is spun at high speed in a horizontal plane. The fluid is deposited whilst the substrate is spinning and is spread across the substrate by centrifugal force.

The thickness of the film on the substrate depends on five key parameters:

1. Rotational speed of spin-coater
2. Spin time
3. Surface wetting of substrate
4. Fume extraction
5. Temperature

Polymertronics' Expertise

Polymertronics' products are designed to be out-of-the-box and simple to use. The product range is for businesses and educators who want to understand OLED technology and to develop products for market:

1. Flexible, rigid and inkjet printable OLED Science Kits for experimenting with OLEDs
2. Ultraviolet curing expertise and equipment for printable electronics
3. Electronic drivers for optimizing OLED performance
4. Solid state lighting development products and expertise
5. Full product development capability for applications
6. *Center-Point* for finding resources and answers to queries

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