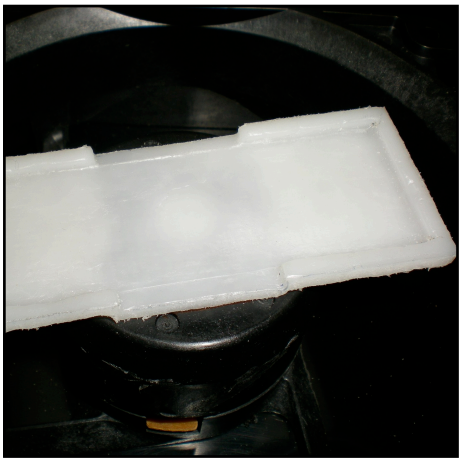
Spin Coater
Product Data Sheet
Version 1.0

Organic light emitting diode (OLED) emissive layers can be deposited by spin-coating methodologies. This fast process results in an even film thickness of a 10 - 500nm across a substrate.



Benefits Of Spin-Coating

1. Low cost
2. Film thickness as low as 10nm
3. Variable speed for variable film thicknesses
4. Spin-coater design to hold 25 x 75mm substrates
5. Calibrated speed steps

How Spin Coating Works

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 a number of parameters:

1. Rotational speed of spin-coater
2. Spin time
3. Fluid's volatility
4. Fluid's viscosity
5. Surface wetting on substrate
6. Fume extraction
7. Temperature

For repeatability, these parameters should be controlled and monitored. For the OLED development kit, where initial edification are sought, accurate control of the parameters is not essential.

The spin coater has 12 calibrated speeds from 200rpm to 1960rpm in 160rpm steps.

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