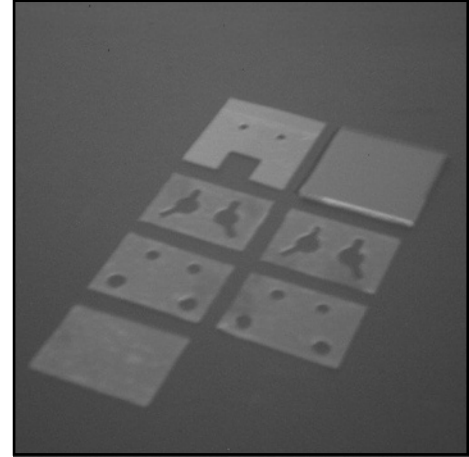


OLED Cathode Kit Product Data Sheet

Version 2

Organic light emitting diodes (OLEDs) are one example of the next generation of electronics that comes under the heading of Printed Electronics.

This cathode kit is designed for a reliable, clean and simple to deposit the cathode layer for an OLED. The kit creates two independent OLEDs of size 2mm diameter circles.



Benefits Of OLED Cathode Kit

1. Simple deposition process
2. Ideal for experimenting with new OLED material science
3. Work-function of cathode is similar to aluminium
4. Customized shapes available by request from Polymertronics
5. Works with Polymertronics' OLED Science Kits
6. Cathode Kit will adhere to any surface
7. 1.3mm thickness
8. Uses 0.08g of cathode fluid per OLED device

How The OLED Science Kit Works

OLEDs are multi-layered light emissive devices that operate of a low applied voltage, typically 3-12Vdc. In an OLED's simplest form it is three layer and their most complex, there are five, or more layers.

This cathode kit is assembled directly onto an OLED's active layers region. The first part has an adhesive backing for easy application. The non-adhesive side is conductive, so connectivity to the cathode can be made. Upon this layer, further layers are added to create a structure for safely and reliably containing the cathode metal. Once assembled the cathode liquid metal is simply injected into the structure using one of the supplied pipettes. Finally, an encapsulating layer is placed on top.

The completed configuration can be handled with ease. It should be borne in mind that the Cathode Kit is not as air-tight as glass, so long term degradation must be expected.

OLED Cathode Kit Contents

Part	Description
Cathode deposition layer-set	Layer-set to give OLED a desired shape and to deposit cathode metal
ITO substrate	Pre-coated indium tin oxide on 25 x 25 mm glass substrate
Cathode liquid metal	Low work function metal for the cathode
Cathode deposition layer-set	Layer-set to give OLED a desired shape and to deposit cathode metal
Gloves	To be worn when manufacturing devices (not for use in a clean-room)
Pipette	Used to inject the cathode fluid into the layer-set
Instruction manual	Explanation and instruction manual for OLED manufacture

POLYMERTRONICS

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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