DuPont Displays
OLED Technology Fact Sheet

DuPont is a leader in solution-based process technology for organic light emitting diode (OLED) displays. Our core focus is on developing technologies that combine state-of-the-art materials, processes and encapsulation to enable improved lifetimes and cost-effective manufacturing of high-performance OLED displays.

Our Offering

Our Solution Process AMOLED Display Technology combines new DuPont solution-based OLED materials, innovative processes and encapsulation technology with active matrix backplanes from leading TFT providers. Fabrication of solution process AMOLED displays requires fewer components than equivalent LCDs, as well as lower material consumption and equipment costs than vapor-deposited OLEDs. These advantages result in significant cost benefits over both incumbent technologies. By closely tailoring the materials and process to work together, DuPont has made significant progress in OLED materials lifetime. Commercial-quality resolution and color coordinates have been achieved with solution printing of small molecule light emitting materials.

DuPont™ HIL material enhances overall OLED performance by improving efficiency and extending lifetime. This water-based hole injection material is formulated for slot die coating, spin coating and other printing and coating processes. Available in a range of conductivities, DuPont™ HIL retains a high work function at neutral pH and forms high-quality transparent films.

DuPont™ Drylox™ cover glass is a cost-effective and versatile encapsulation alternative, which simplifies manufacturing, lowers costs and enables thin displays. A single-component lid with integrated getter, Drylox™ cover glass effectively adsorbs moisture and other contaminants to dramatically reduce pixel degradation, edge growth and dark spot formation in flat panel displays.

Contact

For more information on these technologies and how they enable cost-effective, high-performance OLED displays, contact:

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