

# THIN, FLEXIBLE, BREATHTAKING



OLED (organic light-emitting diode) technology is the new paradigm in displays. It creates a world of new opportunities. Thinner, free-form, flexible, printable, wearable, even transparent, **the possibilities seem almost limitless, the impact amazing.**

## SHIFTING PARADIGMS in display

The organic nature of the materials making up the OLED stack, however, is not only a key enabler for these amazingly thin and flexible use cases, but also a key challenge for actually building consumer devices. Sensitive to both high temperature steps during display production as well as electric stress during operation, OLED materials must be precision engineered at the atomic level to build reliable devices for everyday use.

Working closely with our customers scientists at Merck have been at the **very forefront of OLED innovation for many years.** From simulation and custom engineering of individual OLED molecular properties to optimization of full OLED stacks. Our ability to deliver OLED innovation is second to none.

Today, we continue to deliver and set new standards with the highest levels of

# PURITY & RELIABILITY

Our OLED Hole Transport Materials (HTM) for example have become an essential enabler for large scale OLED TV. Delivering **breakthrough efficiency** as well as longer lifetime by steering charge flow across the OLED stack; all while also **ensuring easy processability during production**.

OLED Materials are another outstanding example of how we are **transforming electronics**

# ATOM BY ATOM.

