



### **Making Next-Generation Lighting Possible**

Imagine being able to unfold your cell phone to reveal a full-length touch screen, then folding it back up to put in your pocket or purse. The screen is powered by organic light-emitting diodes (OLEDs) encased not by glass, but coated with a thin, flexible barrier material.

OLEDs, considered the next-generation of lighting, are paper-thin, flexible and lightweight devices that consume up to 70 percent less energy compared with conventional light sources. Huntsman Advanced Materials has developed a special process that allows its Araldite® resins to bond and mechanically protect the OLEDs without compromising light-emitting capabilities.

Last year, Huntsman put its technology to the test by sponsoring a car in the 24 Hours of Le Mans race in France. The OLED rearview mirrors on the ORECA 01 were made with Araldite resins and provided effective protection for the OLED in extreme conditions. The Holst Centre, an independent research and development center for flexible and wireless electronics in The Netherlands, is now applying the results of this successful integration to its future research activities to further the development of encapsulation technologies and moisture barriers for flexible electronic devices.