

Press Release

For Immediate Release

Press Contact: Rob Tomasek
Telephone: 602-288-9758
Fax: 602-288-9762
Email: rtomasek@e3displays.com

E3 Displays Announces Multiple Formulations of Optical Adhesive for LCD Bonding

Multiple variations of optically superior adhesive allow for application specific bonding, resulting in increased strength of bond, superior optical clarity (“non-yellowing”) and improved protection through inherent compliancy, thereby absorbing stresses induced by thermal or mechanical loading.

Phoenix, Arizona, July 10, 2009

E3 Displays (E3D) has developed multiple formulations of its optical adhesive, which was originally created for the bonding of glass and plastic substrates to the surface of LCD displays. These variations allow E3D to tailor its adhesive to match the material requirements of each application, providing ruggedization and superior performance while improving production efficiencies. The adhesive’s ability to bond glass and withstand wide temperature ranges, while retaining compliancy and optical clarity, results in optimal LCD protection under extreme environmental conditions. Since they are UV curable, the new adhesive formulations require very short bonding times, resulting in production methods previously unavailable in LCD bonding. They also exhibit the compliancy of silicone adhesives while achieving the adhesion performance of epoxies, allowing for a wide range of applications.

Chuck Rahrig, President of E3 Displays states, “Through our experience with new design applications, emerging LCD technologies and multiple requirements for use in extreme environments, E3 has found that one adhesive solution does not meet the needs of the market. When considering the market demand for multiple design requirements that include both mechanical and optical, specific application needs and the ability to repair units damaged in the field, we have concluded that a single adhesive solution cannot meet market and technology demands.”

All derivatives of the E3D adhesive have been successfully tested in temperature ranges from -55°C to 100°C, with no decrease in adhesion performance or optical clarity. Results also indicated that test units showed reduced stress to the LCD structure when compared to traditional optical bonding adhesives and processes. Likewise, long term solar aging and humidity testing showed no degradation in each adhesive’s bonding ability or clarity (no “yellowing” or cloudiness). This bonding agent is particularly well suited for the avionics, military, marine and industrial sectors of the LCD display industry.

About E3 Displays

E3D is a display engineering and manufacturing company which works with OEM/ODM customers in the avionics, marine, military, industrial, automotive and medical electronics industries to define, design and produce customized flat panel display systems and components.

Display enhancements include the complete re-design of the backlight optics system, integrating electronics and mechanical assemblies, and improving the front screen performance using anti-reflective, anti-glare or EMI filter glass or incorporating touch panel technology. Production of such enhanced displays has resulted in the engineering and development of non-silicone based, UV curable adhesives possessing superior optical clarity and “non-yellowing” characteristics.

For more information regarding E3 Displays and its products, please see their website at www.e3displays.com or contact Rob Tomasek, Vice President, at 602-288-9758.