



The miracles of science™

DuPont Displays LCD Technology Fact Sheet

DuPont scientific innovation and experience combine to provide superior performance and cost savings for LCD manufacturers

Our LCD offerings include advanced composite reflectors used in LCD backlights for improved performance and cost savings over traditional PET-based reflectors and industry-leading bonding technology that optimizes the viewability and durability of LCD displays.

DuPont™ Opton™ Advanced Composite Reflectors (ACR) – Opton™ ACR films are used in LCD backlights to improve overall LCD display performance while reducing cost and power consumption. Made from microfiber nonwoven composite materials, Opton™ ACR films have intrinsically high reflectivity, high light diffusivity and excellent UV stability while reducing material costs. By reducing the number of lamps needed in LCD devices, Opton™ ACR films reduce both manufacturing costs and energy consumption. Opton™ ACR films are compatible with a variety of display BLU designs for both CCFL and LED light sources and are ideal for applications ranging from notebooks and monitors to televisions.

DuPont™ Vertak™ Bonding Technology – Vertak™ bonding technology combines an innovative lamination process with an industry-leading proprietary adhesive to optically bond an anti-reflective glass, plastic or touch sensor directly to the front of an LCD display. Vertak™ bonding technology enhances display performance by improving sunlight readability up to 400% and impact and scratch resistance up to 300%. It is ideal for use in consumer and industrial applications requiring outdoor viewability and the durability to withstand impact, vibration, extreme temperatures, altitudes and dust.

DuPont provides full transfer of this proven bonding technology and sale of its high performance adhesive to LCD and touch panel manufacturers who are looking to launch new bonding operations with low barriers to entry. Specifically developed for ease of reworkability, the next-generation Vertak™ bonding adhesive enables display companies to reduce their overall manufacturing costs.

Contact

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