



Precise Control, Precise Results

Henkel's Precision Edge Control – LOCTITE DSP 3808

The Latest Innovation in High Viscosity LOCA Technology

Henkel commercialized a novel suite of liquid optically clear adhesive (LOCA) materials that offer significant process and design enabling capabilities for touch display (including smart phone, tablet, notebook and AIO PC) and large format display. The new LOCTITE brand materials are precise edge control (PEC) LOCA formulations that allow for the construction of displays with narrow bezel, ultra-narrow bezel or bezel-less architectures. As the name connotes, PEC LOCA materials provide unique properties that enable the adhesives to remain at the edge of the touch panel without any overflow. For use with touch display and large format display, LOCTITE PEC LOCA materials now are available in pre-gel, high viscosity and pressure sensitive adhesive (PSA) formulations.

The new formulations, LOCTITE DSP 3808, is a liquid optical clear adhesive with high viscosity and thixotropic property, which could be dispensed by stencil printer. Compared to traditional LOCA, it offers better edge control and simplify the manufacturing process.

Henkel is your design partner for handheld devices and displays, providing innovative solutions for all your development needs. Trust our industry know-how and unsurpassed technical support for improving your current processes and technologies and generating better results.

TYPICAL PROPERTIES OF CURED MATERIAL

TYPICAL PRODUCT ATTRIBUTES	LOCTITE DSP 3808
Curing Method	UV Only
Dispensing Method	Stencil printing
Viscosity (mPa-s / CP)	Thixotropic 2.8-3.8
RI	1.48
Hardness (Shore ∞)	15
Shrinkage (%)	0.9
Elongation (%)	400
ITO corrosion (500 hours)	5.03%
Transmission	>99%
B*	0.15
Haze (%)	0.2
Dielectric Constant@1Mhz	2.82
Cross Tensile strength (mpa)	0.49
Shear Adhesion failure temperature@500g load	120°C

BENEFITS

- Precise edge control
- Eliminate dam LOCA
- Simplified process: reduce overall cost
- Good thickness uniformity
- Improved side curing property

