BM Science. Applied to Life.

Clear benefits.

3M Display Materials & Systems Division Optically Clear Adhesive (OCA) and Contrast Enhancement Film (CEF)

Why 3M?

3M provides a full suite of high performance optically clear adhesives and contrast enhancement films. Several of these are brand new to the industry.

We're known for our adhesives technologies for a good reason: we invented many of them. With decades of experience, an extensive global support network and a well-earned reputation for quality and reliability, we can bring solutions to make your products more appealing to your customers.



3M Display Enhancement Films

Improve visual quality.

Light transmission >99% when corrected for reflection losses

Non-birefringent when removed from carrier film

High temperature, humidity and UV resistance

Enhance robustness.

Long term durability without yellowing, delaminating or degradation

High cohesive and peel strength for reliably bonding most transparent substrates

Reduce thickness.

Designed to enhance the effectiveness and efficacy of the device without adding to the depth

Enhance your touch sensor design.









Enhanced Visual Quality





New technologies to meet changing needs.

3M[™] Optically Clear Adhesive (OCA) serves as an industry standard.

3M OCA comes in a variety of thicknesses to suit your needs. Choose 3M OCAs for touch screens, and when you're bonding film and glass.

It's ideal for transparent graphic overlays, projection screens and other applications where an optically clear adhesive is necessary.

Avionics and military displays often carry the 3M OCAs for reliability, quality and durability of design.

LCD clarity, color neutrality and reliability is improved with 3M OCAs.



3M[™] Contrast Enhancement Films (CEF) are ideal for direct display bonding.

3M CEF is recommended for applications that require direct LCM bonding, ITO compatibility and high adhesion.

3M CEF comes with dual liners with differential release force for ease of processing, and protection from contamination.

Soft versions are suitable for situations that require filling moderately thick ink step (decorative border).

Product Description	X=Thickness (mils)	Key Features
3M™ Optically	Clear Adhes	ives
3M OCA 8146-X	1-5	 General Purpose Sensor to lens, sensor to sensor, TDM Good ITO compatability. 15% ink step coverage
3M OCA 8148-X	1-5	 TDM bonding or cover lens to sensor UV curing required. High adhesion and off-gassing resistant. 30% ink step coverage
3M [™] Contrast	Enhancemer	nt Films
3M CEF05XX	5-10	 General Purpose Sensor to lens, sensor to sensor, TDM Good ITO compatability. 15% ink step coverage
3M CEF19XX	5-10	 TDM bonding with superior noise suppression Low dielectric constant (2.89) UV curing required. 35% ink step coverage
3M CEF28XX	4-10	 TDM bonding or cover lens to sensor UV curing required. High adhesion and off-gassing resistant. 30% ink step coverage



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