

# UV Display Adhesives Provide Fast, Clear, Bubble-Free Optical Bonding

## Enhance LCD and Plasma Screens, Monitors, Outdoor Kiosks, Navigation System, and Mobile Phones

DYMAX optical bonding adhesives are specifically formulated for applications where crystal-clear, invisible bonds are required. The adhesives bond glass to glass, glass to plastic, and plastic to plastic upon exposure to ultraviolet light, in seconds. DYMAX optical bonding adhesives are designed to maximize light transmission, accurate color, brightness, and clarity of liquid crystal displays (LCDs). Common applications include monitors, plasma screens, kiosk panels, and mobile phones. Reduced air entrapment creates strong, ripple-free bonds that help increase panel strength.

“On demand cure” means substrates can be repositioned precisely until parts are ready to be cured. Using a thin layer of DYMAX adhesive controls cost and can reduce the weight of the final product. The adhesive also acts as a barrier against stress, significantly improving product reliability and warranty costs. DYMAX display adhesives come in a variety of viscosities for ease of use and controlled dispensing and are available in a wide range of packaging sizes.



Laminating glass to glass with DYMAX 9641-LV

- One component, no mixing required
- Flexible
- Low stress
- Low modulus
- Resistant to yellowing
- Fast cure
- High strength
- Bonds various substrates
- High optical clarity
- Enhanced thermal cycling



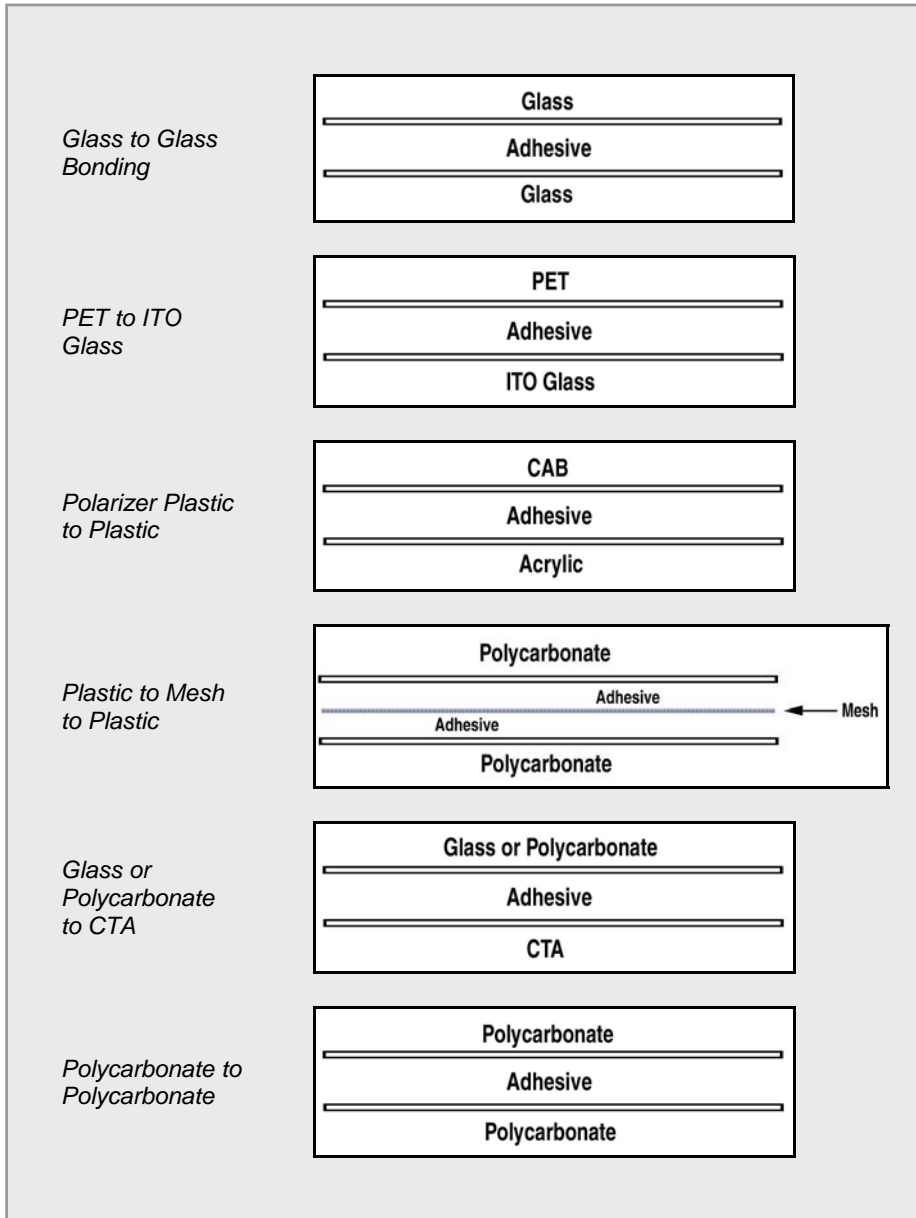
LCD laminating plastics with DYMAX 9641-LV



Optical bonding increases clarity, viewing angle, and vibration resistance

Product Number	Description	Viscosity (mPas)	Refractive Index	Applications
9-20737	Sealing gaps between bezel and screen surface; highly thixotropic for minimal flow	11,000	*	Screen and polarizer laminations
9641-LV	Resistant to yellowing from UV and heat; linear shrinkage 0.6%; low viscosity; hardness 00-56; bonds to various substrates	1,100	1.48	LCDs and screen laminations

\*Refractive index figures to come



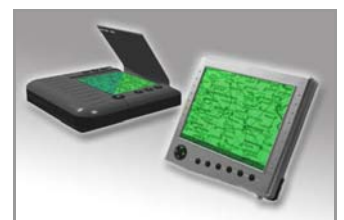
LCD Monitors



Portable Music Players

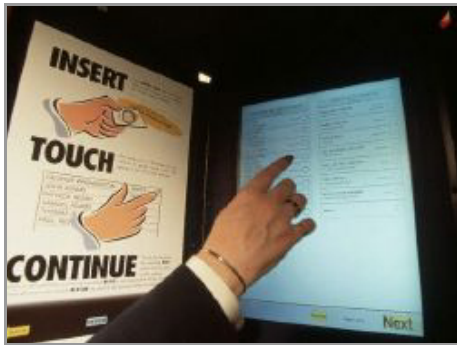


Informational Kiosks



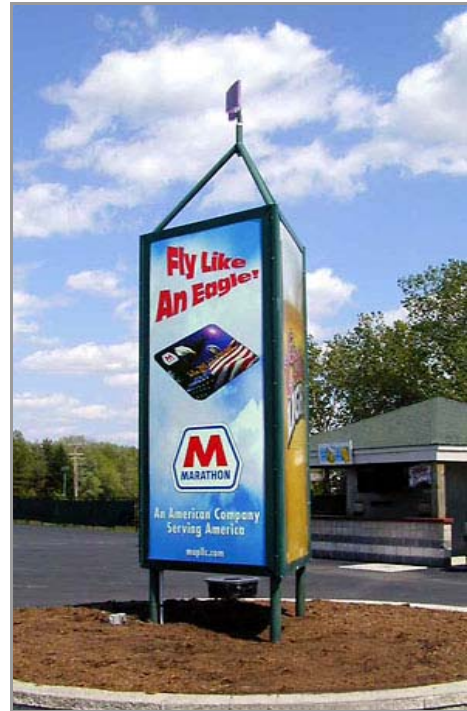
Navigational Systems

# Common Applications of DYMAX LCD Laminating and Bonding Adhesives



## Interactive Touch Kiosks

*Adhesive bonds remain pliable without affecting performance.*



## Outdoor Kiosks

*Resists yellowing and harsh environments.*



## LCD Games

*Economical-to-use adhesive solutions keep product costs down.*



## Bus and Train Station Information Monitors

*Various unlike substrates can be laminated with a single adhesive. Not affected by temperature variations.*



*DYMAX adhesives can be used in lamination applications to prevent screen glare.*

# DYMAX UV Light-Curing Systems for Display Bonding

DYMAX LCD adhesive products cure upon exposure to ultraviolet light. A range of curing options is available from DYMAX from conveyerized systems to complete flood lamp or modules to curing accessories such as radiometers.



DYMAX UVC conveyor systems come in a range of curing widths to accommodate LCD screens in various sizes. Customized conveyors are also available. Contact DYMAX for more information and free consultation.



DYMAX flood lamp systems are available for incorporating into existing assembly lines or for mounting over DYMAX UVC conveyor systems. Contact DYMAX for more information and free consultation.



DYMAX spot curing systems are used to cure beads sealing the gaps between the LCD to bezel.

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DYMAX Corporation  
860.482.1010  
info@dymax.com  
[www.dymax.com](http://www.dymax.com)

DYMAX Europe GmbH  
+49 (0) 611.962.7900  
info\_de@dymax.com  
[www.dymax.de](http://www.dymax.de)

DYMAX UV Adhesives &  
Equipment (Shenzhen) Co Ltd  
+86.755.83485759  
dymaxasia@dymax.com  
[www.dymax.com.cn](http://www.dymax.com.cn)

DYMAX Asia (Hong Kong) Ltd  
+852.2460.7038  
dymaxasia@dymax.com  
[www.dymax.com.cn](http://www.dymax.com.cn)

DYMAX Korea LLC  
82.2.784.3434  
info@dymax.kr  
[www.dymax.co.kr](http://www.dymax.co.kr)

