

**3M** Science.  
Applied to Life.™



3M Bonding Solutions for Automotive Displays

# More is possible.

Technology that transforms vehicle design.





3M™ VHB™ Tapes | 3M™ Liquid Adhesives | 3M™ Thin Bonding Tapes

# Push the boundaries of design.

## Accelerate your design for the high-speed automotive display industry.

To win in the automotive electronics market, you need to keep up with continuous advancements. And today's consumers demand a seamless interface with their vehicles. Impress your customers by reimagining the ride with 3M Display Bonding Solutions.

### **More applications.**

Put more screens in more places.

### **More impressive.**

Redefine what a display can be.

### **More potential.**

Enhance the options you're able to offer.

### **More adaptable.**

Update interfaces as technology evolves.

### **More competitive.**

Get the edge and stay ahead of automotive trends.



# Remove borders. Stretch capabilities.

When you're designing large, high-impact automotive displays, high adhesion is key. So are impact and vibration resistance, high-temperature performance, anti-lifting, static shear and waterproofing. With our full line of bonding solutions, excellent holding power is just the beginning.

## Features:

- ▶ High adhesion strength opens up design possibilities
- ▶ Impact and vibration resistance keeps screens secure
- ▶ Closed-cell construction seals out moisture and contaminants (e.g., dust and liquids)
- ▶ Durable, heat-resistant displays stand up to sunlight and high temperatures
- ▶ Anti-lifting capabilities let you design for curved surfaces

## Applications:

- ▶ Driver information displays (DID)
- ▶ Center information displays (CID)
- ▶ Rear-seat entertainment displays (RSE)
- ▶ Automotive smart surfaces
- ▶ eMirrors
- ▶ Side mirrors
- ▶ Head-up displays (HUD)



High adhesion for strong hold.

# Less is more.

High adhesion strength doesn't have to mean bulky design. 3M Display Bonding Solutions create a strong bond and excellent hold with a sleek, streamlined profile. Powerful enough to support large displays in a variety of locations.



Impact resistance for reliability.

# Take control of the road.

Make sure your designs can stand up to whatever lies ahead. 3M Display Bonding Solutions offer impact and vibration resistance to absorb shock and keep displays in place. Heat-resistant properties can handle direct sunlight and high display temperatures.



Withstands heat  
and vibration.





Premium sealing for protection.

**No seams.  
No frames.  
No limits.**

Featuring 100% closed-cell construction to seal out contaminants, moisture and chemicals, 3M™ VHB™ Tapes give you edge-to-edge coverage for seamless design. Black and gray tapes and adhesives block out contaminants and light, so screens are protected and come alive with color.

Anti-lifting for design flexibility.

# Shape the impossible.

Time to flex your imagination. With 3M Bonding Solutions for Automotive Displays, you can create stunning bezel-free displays. Anti-lifting capabilities enable you to remove borders for more curved displays in more places.



# More choices. More possibilities.

Each 3M Bonding Solution has its own unique strengths and uses. For help selecting the right product that will help bring your design to life, contact a 3M representative at 1-800-362-3550.

	Key Feature	3M Product	Thickness	Application
<b>3M™ VHB™ Tapes for High Impact and Vibration</b>				
Go-to Materials	Balance of adhesion, impact and heat resistance	5909 Family 5952 Family	0.15 - 0.35 mm ( (black) 0.4 - 1.6 mm (black)	Most displays
	Good static shear	4914 Family 4941 Family	0.15 - 0.25 mm (white) 0.4 - 2.3 mm (black or gray)	Less secured displays
	High heat resistance	VHX-1701 Family GPH Family	0.15 - 0.6 mm (black) 0.6 - 1.1 - 1.6 mm (gray)	Curved or sun exposed displays
<b>3M™ Liquid Adhesives for Extreme Strength and Gap Filling</b>				
Go-to Materials	1-part moisture cure urethane (PSA PUR), reworkable after cure, stackable, long open time	3M™ Plastic Bonding Adhesive 2665B Black	<2.0 mm thick (black)	Narrow bond line <2.0 mm width
	1-part moisture cure urethane (PSA PUR), reworkable, stackable, fast rate of strength build up	3M™ Scotch-Weld™ PUR Adhesive 2710p Black	<2.0 mm thick (black)	Narrow bond line <2.0 mm width
	2-part urethane, stoichiometrically cure (not moisture)	3M™ Scotch-Weld™ Urethane Adhesive DP604NS	<2.0 mm thick (black)	Narrow bond line <2.0 mm width, stackable
<b>3M™ Thin Bonding Tapes for Component Bonding</b>				
Go-to Materials	Adhesion to metals, glass and high surface energy plastics	467MP, 468MP (ATT), 9492MP, 9495MP (DCT)	0.06 - 0.13 mm (clear) 0.06 - 0.13 mm (clear)	Flexible printed circuits, metal/FR4 to polyimides
	Adhesion to low surface energy plastics	9471LE (ATT) 930XXLE (DCT)	0.06 - 0.13 mm (clear) 0.05 - 0.2 mm (clear)	Flexible printed circuits and low surface energy substrates
	Impact resistance	950XX (ATT) 934XX (DCT)	0.05 - 0.1 mm (clear) 0.2 - 0.3 mm (black)	Displays, batteries, flexible printed circuits, speakers or keyboards
	Heat resistance	F9460PC (ATT) 9077 (DCTT)	0.06 mm (clear) 0.05 mm (clear)	Flexible printed circuits , HUD dust cover

ATT = Adhesive Transfer Tape, DCT = Double-Coated Tape, DCTT = Double-Coated Tissue Tape



# Design bigger. Design bolder. Design more.

Learn more at [3M.com/AutoHMI/Bonding](https://3M.com/AutoHMI/Bonding).

## Our full line of 3M Solutions lets you push the boundaries of design.

**3M™ VHB™ Tapes** protect automotive displays with unique shock absorption, vibration control, tight sealing and stress relaxation for greater reliability and design flexibility.

**3M™ Liquid Adhesives** secure displays and parts with a strong structural bond, even in very narrow bond lines and small gaps, to enable new designs.

**3M™ Thin Bonding Tapes** incorporate the simplicity of pressure-sensitive adhesive (PSA) with strength, conformability, anti-lift properties, impact resistance and optical clarity.

**3M™ Optically Clear Adhesive (OCA) Solutions** for displays enhance brightness and contrast, improve robustness and ruggedness and lower reflections while meeting the demands of automotive-grade applications.

**E-A-R™ CONFOR™ Polyurethane Foams** help protect sensitive automotive HMI equipment from shock and vibration, improving product durability.

**3M™ Thermal Management Materials**, including tapes, pads and liquids, can help automotive HMI devices run cooler and more reliably.

**3M™ EMI/EMC Solutions**, including EMI tapes and absorbers, block and/or absorb electromagnetic interference (EMI) across a wide variety of frequencies and sources to help enable optimal performance of automotive HMI and display electronics.



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