

3M Science.
Applied to Life.™

**Make extended reality
everyday reality.**



True immersion takes true bonding

Extended reality devices make the impossible possible. With the press of a button, virtual reality/mixed reality headsets let us walk with dinosaurs or watch stars explode on the edge of the galaxy. Immersion is key — and nothing breaks that immersion like an interrupted connection or uncomfortable fit.

Extended reality device bonding applications

Helping you deliver visual appeal and wearability. Our portfolio offering of trusted, easy-to-use ultra-thin tapes and liquid adhesives help you achieve your design goals across XR applications.

- Integrate impact resistance, chemical resistance and more — even with curved and hard-to-bond surfaces
- Maximize design flexibility with liquid adhesive and tape options

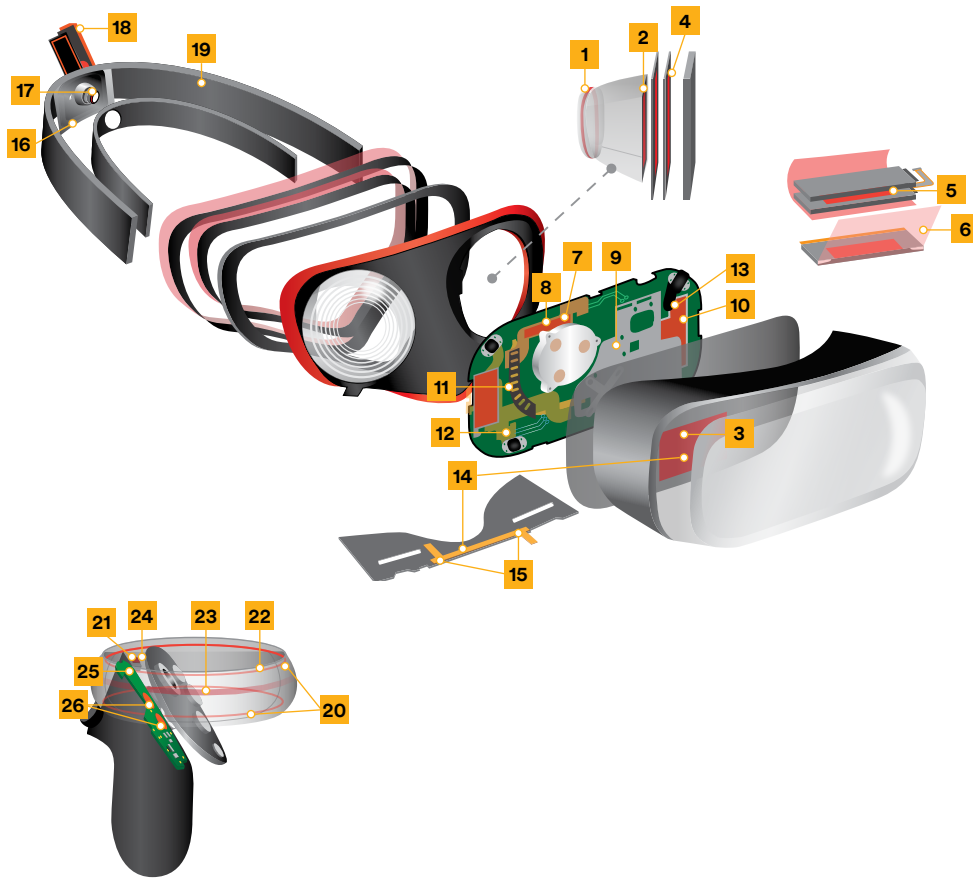
Extended reality device EMI applications

Boost signal integrity in thin device designs. Our conductive tapes can help you control EMI and help you keep your components performing at their full potential — even in tight spaces.

- Grounding and shielding for different applications
- Thin solutions with XYZ conductivity

Extended Reality Device

Featured Products



VR device bonding applications

- 1 Lens bonding
- 2 Display bonding
- 3 Display FPC shielding
- 4 Foam and plastic shell bonding
- 5 Battery bonding
- 6 Battery wrap attachment
- 7 FPC to metal and FPC to plastic bonding
- 8 PCB grounding to cover
- 9 SoC/Chipset shielding CAN fence
- 10 FPC stiffener grounding
- 11 Cable wrap for shielding and grounding
- 12 Camera and PCB shielding
- 13 FPC antenna and plastic bracket bonding
- 14 FPC to plastic bonding
- 15 Microphone mesh bonding
- 16 Magnet bonding
- 17 Speaker assembly bonding
- 18 Mushroom buckle bonding
- 19 Fabric with plastic parts bonding
- 20 Controller assembly
- 21 Controller back cover bonding
- 22 Controller sensor attachment
- 23 FPC bonding
- 24 Foam attachment
- 25 Metal attachment
- 26 Rubber pad attachment

		Number	Application	Product Number	Product Type	Color	Thickness (µm)	Features
VR Headset	Display system	1	Lens bonding	3M™ VHB™ 590x	Acrylic Foam Tape	Black	150, 200, 250, 300, 350	<ul style="list-style-type: none"> • High bonding strength and durability • Conformable • Seal against water ingress
				3M™ VHB™ 5981	Acrylic Foam PET Tape	Black	200, 250, 300, 350, 400	<ul style="list-style-type: none"> • Good reworkability • Impact resistance and conformability • Easily converted
				930xxLE	Double Coated PET Tape	Clear	50, 100, 150, 200	<ul style="list-style-type: none"> • Bonding to low-surface-energy substrates • Adhesion to oily surface • Dimensional stability, ease of die cutting • Good resistance to industrial and consumer chemicals
				DP420LH	2K Epoxy Adhesive	Off-white, Black	–	<ul style="list-style-type: none"> • High peel and shear strength • 20-minute work life • Outstanding environmental performance
		2	Display bonding	3M™ VHB™ 5981	Acrylic Foam PET Tape	Black	200, 250, 300, 350, 400	<ul style="list-style-type: none"> • Good reworkability • Impact resistance and conformability • Easily converted
		3	Display FPC shielding	9778S	Single Sided Conductive Foil Tape	Copper	30, 45, 100	<ul style="list-style-type: none"> • Good adhesion and Z-axis conductivity • Good handling and workability • Excellent EMI/EMC shielding performance
	1080TC			Single Sided Copper Foil Tape	Copper	20	<ul style="list-style-type: none"> • XYZ-conductivity • Conformable, quick bonding • Copper foil backing 	
	4	Foam and plastic shell bonding	GTM710BP	Double Coated PET Tape	Clear, Black	50, 80, 100, 150, 200, 250	<ul style="list-style-type: none"> • Bonding to low-surface-energy substrates • High peel strength • Anti-repulsion, easily converted 	
			9448A	Double Coated Tissue Tape	White	150	<ul style="list-style-type: none"> • High initial adhesion • Up to 150°C short-term heat resistance • Easily converted 	
	Battery bonding	5	Battery bonding	GTM7xxP/BP	Double Coated PET Tape	Clear, Black	50, 80, 100, 150, 200, 250	<ul style="list-style-type: none"> • Bonding to low-surface-energy substrates • High peel strength • Anti-repulsion, easily converted
6		Battery wrap attachment	467MP, 468MP	Adhesive Transfer Tape	Clear	60, 130	<ul style="list-style-type: none"> • Up to 204°C short-term heat resistance • Solvent resistance • High shear strength 	
7		FPC to metal and FPC to plastic bonding	467MP, 468MP	Adhesive Transfer Tape	Clear	60, 130	<ul style="list-style-type: none"> • Up to 204°C short-term heat resistance • Solvent resistance • High shear strength 	

		Number	Application	Product Number	Product Type	Color	Thickness (µm)	Features
VR Headset	Main Logic Board (MLB) grounding and shielding	8	PCB grounding to cover	1022TF	Single Sided Conductive Fabric Tape	Grey	30	<ul style="list-style-type: none"> • Excellent EMI/EMC shielding • Conformability and quick bonding
		9	SoC/Chipset shielding CAN fence	MSG7000S	Conductive Gasket	Grey	300, 650, 1000, 1500, 2000, 2500	<ul style="list-style-type: none"> • High compression for wide-range gap filling • Excellent contact resistance and reliable adhesion • Low resistance even at a slight compression rate
		10	FPC stiffener grounding	9711S	Double Sided Conductive Fabric Tape	Grey	30, 50, 80, 100, 120, 130, 150, 170, 200, 210, 220, 250, 300	<ul style="list-style-type: none"> • XYZ-conductivity • Excellent conformability, quick bonding • Nickel/copper-coated conductive fabric and conductive PSA
				5113DFT	Double Sided Conductive Fabric Tape	Metallic	50	<ul style="list-style-type: none"> • XYZ-axis conductivity through adhesive • Excellent electrical contact to small-size areas • Resists moisture to maintain the tapes integrity enabling a four-year shelf life
				MSG7000S	Conductive Gasket	Grey	300, 650, 1000, 1500, 2000, 2500	<ul style="list-style-type: none"> • High compression for wide-range gap filling • Excellent contact resistance and reliable adhesion • Low resistance even at a slight compression rate
	11	Cable wrap for shielding and grounding	1022TF	Single Sided Conductive Fabric Tape	Grey	30	<ul style="list-style-type: none"> • Excellent EMI/EMC shielding • Conformability and quick bonding 	
	Camera module	12	Camera and PCB shielding	9778S	Single Sided Conductive Foil Tape	Copper	30, 45, 100	<ul style="list-style-type: none"> • Good adhesion and Z-axis conductivity • Good handling and workability • Excellent EMI/EMC shielding performance
				1080TC	Single Sided Copper Foil Tape	Copper	20	<ul style="list-style-type: none"> • XYZ-conductivity • Conformable, quick bonding • Copper foil backing

Chart continued on next page

		Number	Application	Product Number	Product Type	Color	Thickness (µm)	Features
VR Headset	Motherboard bonding	13	FPC antenna and plastic bracket bonding	9471LE, 9472LE	Adhesive Transfer Tape	Clear	58, 132	<ul style="list-style-type: none"> ● Bonding to low-surface-energy substrates ● Anti-lifting ● Resistance to chemicals, moisture and humidity
	Plastic front cover	14	FPC to plastic bonding	9471LE, 9472LE	Adhesive Transfer Tape	Clear	58, 132	<ul style="list-style-type: none"> ● Bonding to low-surface-energy substrates ● Anti-lifting ● Resistance to chemicals, moisture and humidity
	Auxiliary chip board		FPC to plastic bonding	3M™ VHB™ 590x	Acrylic Foam Tape	Black	150, 200, 250, 300, 350	<ul style="list-style-type: none"> ● High bonding strength and durability ● Conformable ● Seal against water ingress
		15	Microphone mesh bonding	3M™ VHB™ 590x	Acrylic Foam Tape	Black	150, 200, 250, 300, 350	<ul style="list-style-type: none"> ● High bonding strength and durability ● Conformable ● Seal against water ingress
	Speaker module bonding	16	Magnet bonding	DP8805LH	2K Acrylic Adhesive	Green	-	<ul style="list-style-type: none"> ● High shear and impact strength ● Four-minute work life, nine minutes to structural strength ● Contains 0.1 mm spacer beads
		17	Speaker assembly bonding	DP420LH	2K Epoxy Adhesive	Off-white, Black	-	<ul style="list-style-type: none"> ● High peel and shear strength ● 20-minute work life ● Outstanding environmental performance
	Headband fabric strap	18	Mushroom buckle bonding	467MP 468MP	Adhesive Transfer Tape	Clear	60, 130	<ul style="list-style-type: none"> ● Up to 204°C short-term heat resistance ● Solvent resistance ● High shear strength
		19	Fabric with plastic parts bonding	9774WL 9775WL	Adhesive Transfer Tape	Clear	100, 130	<ul style="list-style-type: none"> ● High tack ● Good resistance to humidity, solvent, chemical and UV

		Number	Application	Product Number	Product Type	Color	Thickness (µm)	Features
VR Controller	Handheld controller assembly	20	Controller assembly	3M™ VHB™ 590x	Acrylic Foam Tape	Black	150, 200, 250, 300, 350	<ul style="list-style-type: none"> • High bonding strength and durability • Conformable • Seal against water ingress
				3M™ VHB™ 4914-015	Acrylic Foam Tape	White	150	<ul style="list-style-type: none"> • Waterproofing • High bond strength and long-term durability
		21	Controller back cover bonding	3M™ VHB™ 590x	Acrylic Foam Tape	Black	150, 200, 250, 300, 350	<ul style="list-style-type: none"> • High bonding strength and durability • Conformable • Seal against water ingress
		22	Controller sensor attachment	552xxP/BP	Double Coated PET Tape	Clear, Black	50, 75, 100, 120	<ul style="list-style-type: none"> • High initial adhesion • Good shear holding power • Easily converted
		23	FPC bonding	9077	Double Coated Tissue Tape	Clear	50	<ul style="list-style-type: none"> • 260°C short-term heat resistance • Releasable after lead-free solder reflow • High adhesion and holding power
	Handheld controller PCB bonding	24	Foam attachment	552xxP/BP	Double Coated PET Tape	Clear, Black	50, 75, 100, 120	<ul style="list-style-type: none"> • High initial adhesion • Good shear holding power • Easily converted
		25	Metal attachment	552xxP/BP	Double Coated PET Tape	Clear, Black	50, 75, 100, 120	<ul style="list-style-type: none"> • High initial adhesion • Good shear holding power • Easily converted
		26	Rubber pad attachment	9119	Double Coated PET Tape	Clear	50, 85, 100, 140	<ul style="list-style-type: none"> • Bonding to silicone substrates • Good shear holding power • Easily converted
	9731			Double Coated PET Tape	Clear	50, 100, 140	<ul style="list-style-type: none"> • Bonding to silicone substrates • High temperature and chemical resistance 	

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