The heart of the smart home.

Smart speakers and smart displays are the beating heart of the modern, connected home. They manage multiple devices and keep us connected as we work, cook and do just about everything else. These devices include curved surfaces with complex and low-surface-energy substrates. They need flexible, versatile bonding solutions to help strike a balance of functionality and aesthetics. And they require effective EMI shielding and grounding solutions to boost signal-to-noise ratios.

Smart speaker and smart display applications:

Lens bonding solutions that help provide good impact resistance and protection from water and chemicals

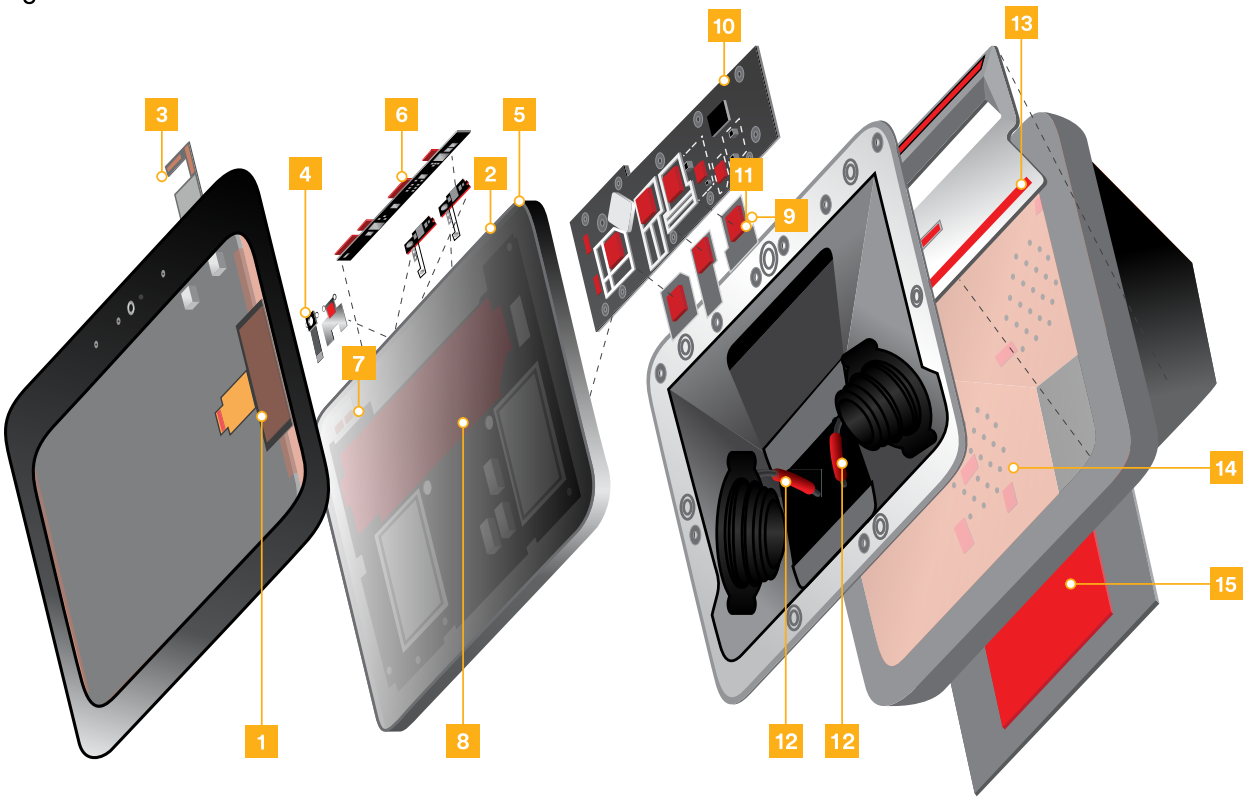
Display bonding solutions that help provide high-strength bonding of plastics to glass

Speaker foam bonding solutions that help deliver good bonding strength to a variety of foam substrates

Excellent bonding strength for **silicone foot bonding**

Camera grounding solutions provide grounding where needed without virtually inhibiting adjacent circuitry

Shield can lid solutions with comparable effectiveness to metal components while minimizing height and weight



Smart Speaker Applications

No.	Application description
1	COF shielding
2	Lens bonding
3	Display FPC grounding
4	Camera grounding
5	Side key grounding
6	Microphone mesh bonding
7	FPC antenna bonding
8	Display frame bonding
9	FPC grounding
10	PCB grounding
11	PCB bonding
12	Outer shell foam bonding
13	Power port bonding
14	Back cover foam bonding
15	Silicone base bonding

	Number	Application	Featured Products	Product Type	Color	Thickness (µm)	Features
Smart Speaker	1	COF Shielding	5113SFT	Single Sided Conductive Fabric Tape	Grey	50/100	XYZ-axis conductivity through the adhesive • Excellent EMI shielding in bond line gap • Excellent electrical contact to small size areas Long shelf-life and stable in humid environments
			7750BF	Single Sided Conductive Fabric Tape	Black	50	XYZ-conductivity through the tape • Excellent conformability and quick bonding • Good EMI shielding in bond line gap • Improved electrical contact to small size areas Good handling and workability
	2	Lens bonding	VHB 5980	Acrylic Foam Tape	Black	150/200/250/300	Drop, shock and impact resistance Conformable Seal against water and moisture
			VHB 590x	Acrylic Foam Tape	Black	150/200/250/300/350	High bonding strength and durability Conformable Seal against water ingress
			VHB 934xx	Conformable Double Coated Tape	Black	200/250/300	Bonding to low surface energy substrates Anti-lifting at room and elevated temperature Great chemical resistance
	3	Display FPC grounding	9701H	Double Sided Non-woven Conductive Tape	Grey	50	XYZ-conductivity Good electrical contact to small area Nickel/copper-coated conductive non-woven fabric carrier
	4	Camera grounding	5113DFT	Double Sided Conductive Fabric Tape	Grey	50/100	XYZ-axis conductivity through the adhesive • Excellent EMI shielding in bond line gap • Excellent electrical contact to small size areas Long shelf-life and stable in humid environments
			9711S	Double Sided Conductive Fabric Tape	Grey	30/50/80/100/120/130/150/170/200/210/220/250/300	XYZ-conductivity • Excellent conformability, quick bonding Deadsoft copper foil backing
	5	Side key grounding	5113DFT	Double Sided Conductive Fabric Tape	Grey	50/100	XYZ-axis conductivity through the adhesive • Excellent EMI shielding in bond line gap • Excellent electrical contact to small size areas Long shelf-life and stable in humid environments
			9711S	Double Sided Conductive Fabric Tape	Grey	30/50/80/100/120/130/150/170/200/210/220/250/300	XYZ-conductivity • Excellent conformability, quick bonding Deadsoft copper foil backing

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	Number	Application	Featured Products	Product Type	Color	Thickness (µm)	Features
Smart Speaker	6	Microphone mesh bonding	930xxLE	Double Coated PET Tape	Clear	50/100/150/200	Bonding to low surface energy substrates Adhesion to oily surface Dimensional stability, ease of die cutting Good resistance to industrial and consumer chemicals
			DP100 Plus LH	2K Epoxy Adhesive	Clear	-	High peel and shear strength 2-4 min worklife
	7	FPC antenna bonding	9471LE	Adhesive Transfer Tape	Clear	58	Bonding t o low surface energy substrates Anti-lifting Resistance to chemicals, moisture and humidity
	8	Display frame bonding	552xxP	Double Coated PET Tape	Clear, Black	50/75/100/120	High initial adhesion • Up to 150°C short-term heat resistance • Easily converted
			VHB 934xx	Conformable Double Coated Tape	Black	200/250/300	Bonding to low surface energy substrates Anti-lifting at room and elevated temperature Great chemical resistance
			DP100 Plus LH	2K Epoxy Adhesive	Clear	-	High peel and shear strength 2-4 min worklife
	9	FPC grounding	5113DFT	Double Sided Conductive Fabric Tape	Grey	50/100	XYZ-axis conductivity through the adhesive • Excellent EMI shielding in bond line gap • Excellent electrical contact to small size areas Long shelf-life and stable in humid environments
			9701H-50	Double-sided Non-woven Conductive Tape	Grey	50	XYZ-conductivity Good electrical contact to small area Nickel/copper-coated conductive non-woven fabric carrier
	10	PCB grounding	5113DFT	Double Sided Conductive Fabric Tape	Grey	50/100	XYZ-conductivity, quick bonding • Conformable, good EMI shielding in bond line gap Conductive fabric coated with conductive adhesive"
			9711S	Double Sided Conductive Fabric Tape	Grey	30/50/80/100/120/130/ 150/170/200/210/220/ 250/300	XYZ -conductivity • Excellent conformability, quick bonding Deadsoft copper foil backing
			MSG7000SDX	Conductive Gasket	Grey	300/650/1000/1500/ 2000/2500	• High compression for wide range gap filling • Excellent contact resistance and reliable adhesion Low resistance even at a slight compression

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	Number	Application	Featured Products	Product Type	Color	Thickness (μm)	Features
Smart Speaker	11	PCB bonding	552xxP	Double Coated PET Tape	Clear, Black	50/75/100/120	High initial adhesion • Up to 150°C short-term heat resistance • Easily converted
	12	Outer shell foam bonding	9448A	Double Coated Tissue Tape	White, Clear	150	High initial adhesion • Up to 150°C short-term heat resistance • Easily converted
			9080A				
	13	Power port bonding	930xxLE	Double Coated PET Tape	Clear	50/100/150/200	Bonding to low surface energy substrates Adhesion to oily surface Dimensional stability, ease of die cutting Good resistance to industrial and consumer chemicals
			DP100 Plus LH	2K Epoxy Adhesive	Clear	-	High peel and shear strength 2-4 min worklife
	14	Back cover foam bonding	552xxP	Double Coated PET Tape	Clear, Black	50/75/100/120	High initial adhesion • Up to 150°C short-term heat resistance • Easily converted
			VHB 934xx	Conformable Double Coated Tape	Black	200/250/300	Bonding to low surface energy substrates Anti-lifting at room and elevated temperature Great chemical resistance
	15	Silicone base bonding	9119	Double Coated PET Tape	Clear	50/85/100/140	Bonding to silicone substrates Good shear holding power • Easily converted
			9731	Double Coated PET Tape	Clear	50/100/140	Bonding to silicone substrates High temperature and chemical resistance

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