



3M Science.
Applied to Life.™

3M™ TAPES FOR MEMBRANE SWITCHES WITH 3M™ ACRYLIC ADHESIVE

**Precise design.
Superior performance.**


Expect performance. Spec 3M.

Accuracy with one touch.

Piece together the power of precision, then seal it in. Design machines that respond to our commands with the lightest touch — so we can live better, work smarter and surpass the limits of yesterday. Because that's how progress is made — and how success is felt.

Membrane switches engineered with 3M™ Acrylic Adhesives measure up to the most demanding standards. With exceptionally high shear strength, great durability and features that streamline the creative process, you can trust that your design delivers accuracy with style—and stands up to the test of time.

Success is calling your name. Design for it.



Use 3M™ Membrane Switch
Spacer 7956MP with a 2.0 mil
(51 µm) clear carrier

Up to spec. On budget. Every layer.

Make sure your design works like it should year after year. Trust every inch of your membrane switch to 3M.™

Bottom Circuit: 5 mils heat stabilized polyester

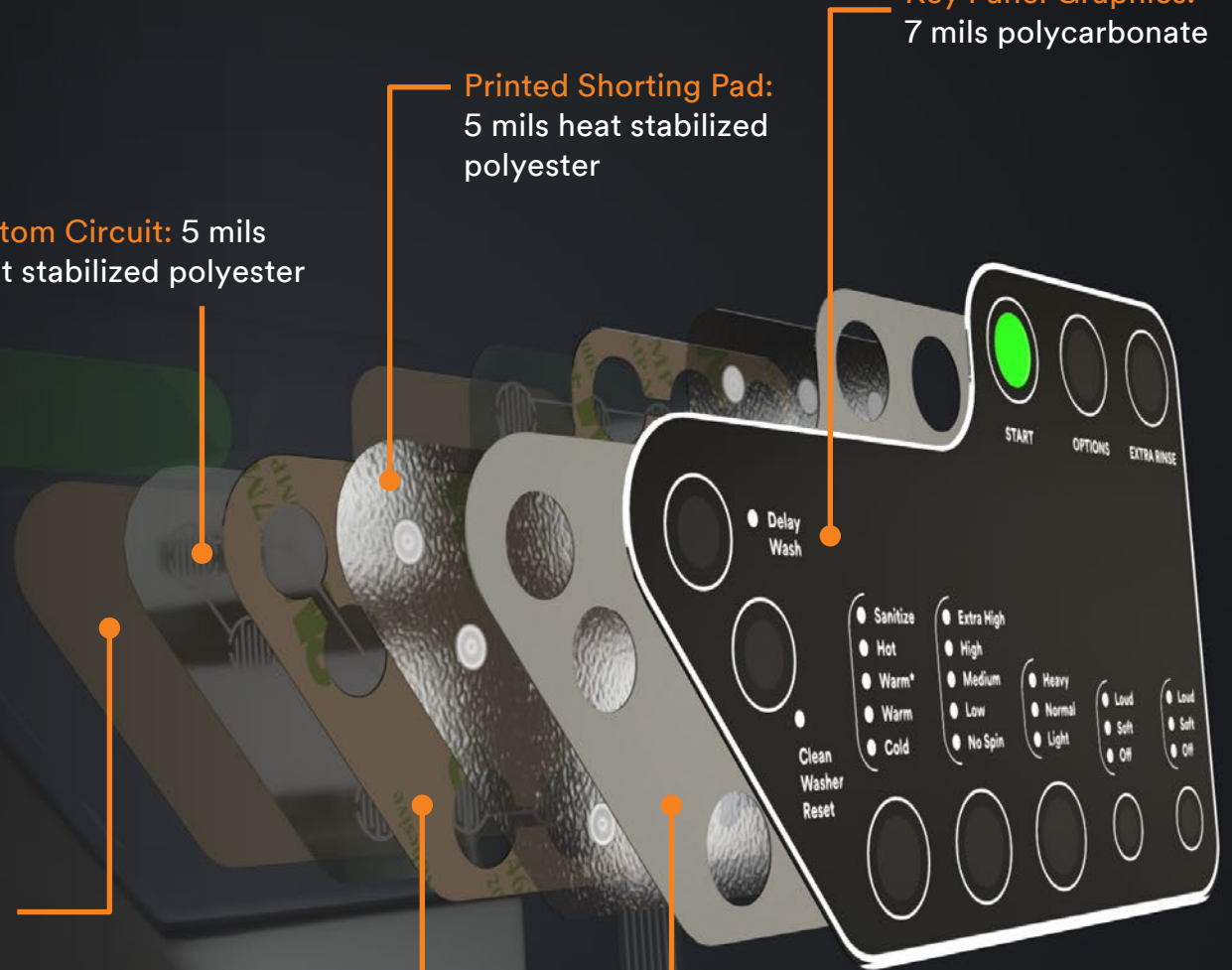
Printed Shorting Pad: 5 mils heat stabilized polyester

Key Panel Graphics: 7 mils polycarbonate

3M™ Adhesive Transfer Tape 467MP: 2 mils acrylic adhesive

3M™ Membrane Switch Spacer 7946MP: 6 mils (2 mils frontside adhesive, 2 mils PET carrier, 2 mils backside adhesive)

3M™ Membrane Switch Spacer 9045MP: 5 mils (2 mils frontside adhesive, 1 mil PET carrier, 2 mils backside adhesive)



APPLIANCE APPLICATIONS

Expect sweet success.

Know that your brand is designed to provide a quality experience every time. 3M™ Membrane Switch products enable precise user control and withstand household chemicals and heat.



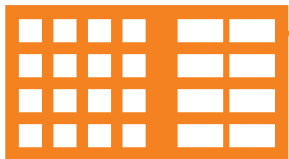
Use 3M™ Membrane Switch Spacer 7961MP with a 7.0 mil (178 µm) clear carrier



INDUSTRIAL APPLICATIONS

Trust the process.

Rely on excellent results. Know that every layer of your membrane switch is made to help your project go smoothly — from concept to execution.



Use 3M™ Membrane Switch Single Coated Spacer 7992MP with a 2.0 mil (51 μm) clear carrier

ELECTRONICS APPLICATIONS

Entertain the possibilities.

See your vision come together — and stay that way. Exceptional shear strength boosts your design's resilience to repeated use.

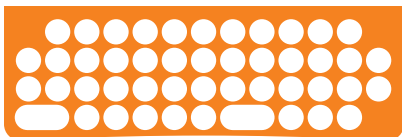


Use 3M™ Membrane Switch Single Coated Spacer 7966MWS with a 2.0 mil (51 μm) white carrier with 5.0 mil (127 μm) adhesive

OUTDOOR APPLICATIONS

Put your design out there.

Gain recognition for designs that endure. 3M™ Membrane Switch products are known for their resistance to chemicals and extreme weather.

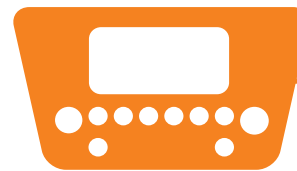
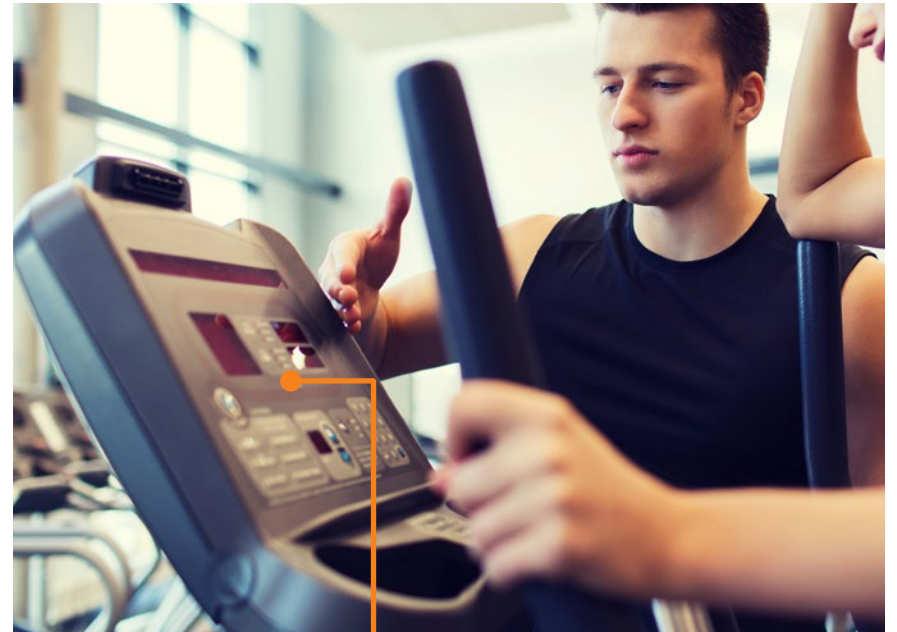


Use 3M™ Membrane Switch Spacer 9056MP with a 2.0 mil (51 µm) clear heavy carrier

FITNESS APPLICATIONS

Spec for endurance.

Flex your creative muscles. Durability and priming for backlighting create an ideal interface for 24/7 use.



Use 3M™ Membrane Switch Spacer 7956MWS with 2.0 mil (51 µm) white carrier for backlit graphic applications

Switch on strong features.

- ▶ Exceptionally high shear strength for long-term resistance to the stress of switch actuation
- ▶ Resistance to slippage, lifting, channeling and buckling
- ▶ Less oozing for precise switch actuation that lasts
- ▶ Tight edges and anti-lifting properties are ideal for curved designs
- ▶ Excellent resistance to detergents, household cleaners, solvents and other chemicals
- ▶ Resistance to hostile environments
- ▶ In select products, vapor coat and white color provide strong opacity to the adhesive system for backlighting while eliminating flood coats
- ▶ Unique flat-lay liner boosts productivity and die-cutting precision while reducing waste
- ▶ Temporarily repositionable adhesive improves placement accuracy
- ▶ Perfect for a variety of markets, including appliances, industrial machinery, consumer electronics, healthcare and hospital, graphic overlays and fitness machines

**Tight
Edges**



**Adhesive
Precision**



**Enduring
Design**

The ooze-resistant nature of our membrane switch adhesives means big benefits for your design process and for product performance. Neater edges accelerate part processing — and your productivity — during execution. Then, once your design goes to market, it has less chance of warping, lifting or buckling — essential traits for lasting success.

3M™ Tapes for Metal and HSE Plastics

with 3M™ Acrylic Adhesive

Product Number	Description	Total Caliper (mils)	Construction		Caliper (mils)
7945MP	Excellent temperature, chemical and UV resistance. High shear strength withstands repeated stresses of switch actuation. Designed to separate switch circuitry until actuation. Both liners are printed.	5	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	1
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	
7953MP	Same characteristics as 7945MP. Primary liner is printed. Also used for graphic attachment.	3.5	Top Liner	58# PCK	
			Adhesive Type I	200MP	1.5
			Carrier	Polyester	0.5
			Adhesive Type II	200MP	1.5
			Bottom Liner	58# PCK	
7953HL	Same characteristics as 7953MP with a single liner.	3.5	Top Liner	83# PCK	
			Adhesive Type I	200MP	1.5
			Carrier	Polyester	0.5
			Adhesive Type II	200MP	1.5
			Bottom Liner	--	
7956MP	Same characteristics as 7945MP. Both liners are printed.	6	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	2
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	

3M™ Tapes for Metal and HSE Plastics

with 3M™ Acrylic Adhesive

Product Number	Description	Total Caliper (mils)	Construction		Caliper (mils)
7956MWS	For use in graphic and non-graphic applications. Metallized vapor coat and white color provide strong opacity for facilitating backlighting and eliminating floodcoats. Single liner.	6	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester (White, Vapor Coated)	2
			Adhesive Type II	200MP	2
			Bottom Liner	--	
7956WDL	Same characteristics as 7956MWS except in sheets.	6	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester (White, Vapor Coated)	2
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	
7957MP	Same characteristics as 7945MP except thicker polyester. Both liners are printed.	7	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	3
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	
7959MP	Same characteristics as 7945MP except thicker polyester. Both liners are printed.	9	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	5
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	

3M™ Tapes for Metal and HSE Plastics

with 3M™ Acrylic Adhesive

Product Number	Description	Total Caliper (mils)	Construction		Caliper (mils)
7961MP	Same characteristics as 7945MP except thicker polyester. Both liners are printed.	11	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	7
			Adhesive Type II	200MP	2
			Bottom Liner	58# PCK	
7966MWS	For use in graphic and non-graphic applications. Metallized vapor coat and white color provide strong opacity for facilitating backlighting and eliminating floodcoats.	9	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester (White)	2
			Adhesive Type II	200MP	5
			Bottom Liner	--	
7966WDL	Same characteristics as 7966MWS except in sheets.	9	Top Liner	58# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester (White, Vapor Coated)	2
			Adhesive Type II	200MP	5
			Bottom Liner	58# PCK	
9045MP	Excellent high temperature, chemical, and UV resistance. High cohesive strength withstands repeated stresses of switch actuation. Heavy liner for improved handling and lay-flat properties. Both liners are printed.	5	Top Liner	94# PCK	
			Adhesive Type I	200MP	2
			Carrier	Polyester	1
			Adhesive Type II	200MP	2
			Bottom Liner	94# PCK	

3M™ Tapes for Metal and HSE Plastics

with 3M™ Acrylic Adhesive

Product Number	Description	Total Caliper (mils)	Construction		Caliper (mils)
7991MPW	Adhesive 200MP on one side of a white polyester carrier. Ideal for providing keypad light management in membrane switch circuit.	2	Carrier	White Polyester Film	1
			Adhesive Type	200MP	1
			Bottom Liner	94# PCK	
7992MP	Adhesive 200MP on one side of a clear polyester carrier.	4	Carrier	Polyester Film	2
			Adhesive Type	200MP	2
			Bottom Liner	94# PCK	
7992MPW	Adhesive 200MP on one side of a white polyester carrier. Ideal for providing keypad light management in membrane switch circuit.	4	Carrier	White Polyester Film	2
			Adhesive Type	200MP	2
			Bottom Liner	94# PCK	
7993MP	Excellent temperature, chemical and UV resistance. Used for lead protection, dome retainer sheets and for printing conductive circuitry.	3	Carrier	Polyester Film	1
			Adhesive Type	200MP	2
			Bottom Liner	94# PCK	
7995MP	Same characteristics as 7993MP except with thicker polyester.	5	Carrier	Polyester	3
			Adhesive Type	200MP	2
			Bottom Liner	94# PCK	
7997MP	Same characteristics as 7993MP except with thicker polyester.	7	Carrier	Polyester	5
			Adhesive Type	200MP	2
			Bottom Liner	94# PCK	



Solventless Technology:

3M™ Tapes for Membrane Switches with 3M™ Acrylic Adhesive are made with a solventless technology.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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