

Avery Dennison Performance Tapes

Mounting & Assembly of Membrane Switches

Application overview

In the fabrication of membrane switches used in various appliances, spacer films are used to bond the different layers of control panels:

- Graphic overlays
- Top & bottom circuit
- Dome retainers

Transfer or double coated tapes are used to bond the entire control panel which often involves low surface energy materials.

Spacer adhesive films: double coated films that allow a high performance and long lasting functioning of the membrane keyboard.

Switchboard bonding: strong adhesion of the switchboard back to standard- and low surface energy materials.

Customer benefits

- Long lifetime of the membrane switches
- Very thin technology following design requirements
- Suitable for industrial processes
- No cure time required, ability to handle immediately following tape application
- Variety of thicknesses available

Key requirements

- No discoloration of the graphical overlay
- No interaction with printed circuit inks



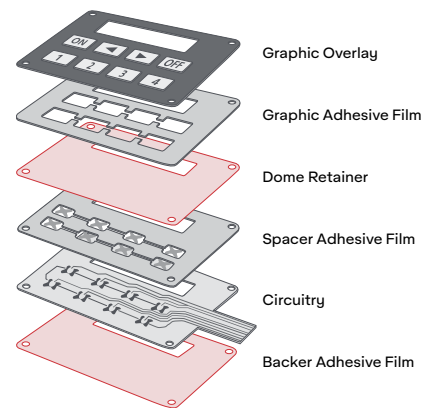
Technical Properties & Key Application Requirements

Technical Properties

In the case of spacer adhesive films, the thickness of the PET carrier can be customized to the required layer thickness for spacer films in the membrane switch.

All tapes are coated with cross-linked acrylic adhesives, providing a very high temperature, chemical, UV- and moisture resistance, as well as a very good resistance to stress and load.

All tapes provide excellent slitting, converting and die-cutting properties and smooth liner removal.



Portfolio Overview

Portfolio	Code	PET Thickness (μ)	Total Thickness (μ) (w/o liner)	Format	Adhesive	Liner
Transfer Tape	MS 21091	/	63	Roll or Sheet (1000mm x 70mm)	Acrylic	Double PPP liner
Transfer Tape	MS 21092	/	120			
Single Coated PET	MS 0387	50	93	Sheet (1000mm x 700mm)		
Single Coated PET	MS 0392	125	170			
Double Coated PET	MS 70003	12	100			
Double Coated PET	MS 70006	50	137			
Double Coated PET	MS 70007	75	162			
Double Coated PET	MS 70009	125	212			
Double Coated PET	FT 397	12	83			
Double Coated PET	FT B1148	12	90	Rubber		Double paper liner

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10/2022



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