Membrane Switch - Component Spacer

2-5-2 B (.009" Total Thickness)

Flexcon® SwitchMark® spacer components, overlaminates and laminating adhesives are specifically engineered for demanding membrane switch applications. Specially formulated pressure-sensitive adhesives are designed to bond well to a variety of surfaces. The adhesive also allows the necessary rework time to minimize waste in assembly from misaligned components.

Markets Include:
Membrane Switch
Aerospace
Appliance
Automotive
Durable Goods
Consumer Electronics
Heavy Equipment
Industrial Equipment
Medical Device

For more information on FLEXcon's pressure-sensitive film solutions for Membrane Switches, contact your local Sales Representative or our Performance Products Business Team at (508) 885-8440.

Product ID #: FLX000485



Product: Flexcon® SwitchMark® 2-5-2 B

Benefits:

- High-performance permanent pressure-sensitive acrylic adhesive bonds well to high-surface energy plastics, metal and paint*
- Superior mechanical properties ensure long-term membrane switch performance without delamination (ASTM F 1578-00)
- Adhesive offers excellent high-temperature, humidity and chemical resistance
- Product can be repositioned within the first few minutes of application allowing easy correction of assembly mistakes
- Adhesive is compatible with a wide range of solvent and UV ink systems, including conductive, decorative and dielectric inks
- 80 lb. backside branded bleached polycoated mando release liner on one side
- SwitchMark® branded, color-coded (blue) release liner ensures easy product identification and mistake proofing during production and switch assembly
- Backed with a 90 lb. moisture stable polycoated layflat release liner ideal for sheet-form converting
- Moisture stable, layflat release liner is ideal for sheet-form converting
- Product is available in rolls and sheets
- Product is RoHS compliant
- Adhesive system has UL recognition under UL746C, Polymeric Adhesive Systems, Electrical Equipment - Component and UL969, Marking & Labeling Systems Materials Component 302°F (150°C)

*Recommendations: Application surfaces must be above 50°F (10°C). Surfaces must be clean and dry to obtain best adhesion results. Firm and even laminating pressure helps promote better adhesive contact and improves bond strength. Always laminate to exclude air entrapment. When diecutting, the 80 lb. printed mando liner should be used as the diecutting base.

For SwitchMark® inquiries in the United States and Canada, please contact Insulectro Distribution at (603) 629-4412. For other inquiries, please contact your Flexcon Sales Representative or call Flexcon at (508) 885-8296.

FLEXcon 1 FLEXcon Industrial Park, Spencer, MA 01562-2642, Telephone (508) 885-8440 FAX (508) 885-8355 www.FLEXcon.com

Flexcon®
SwitchMark® 2-5-2 B

PRODUCT DATA	VALUE		TEST METHOD
Physical Properties			
Thickness (Mils[microns])	90 PFW	6.9 (175) +/- 10%	ASTM D 3652 (Modified for use with non-tape products)
	Adhesive	1.9-2.1 (48-53) +/- 0.1 (3)	
	Polyester Film	5.0 (127) +/- 10%	
	Adhesive	1.9-2.1 (48-53) +/- 0.1 (3)	
	SPEC 80B PFM (black stripes)	4.8 (122) +/- 10%	
Dielectric Strength (minus adhesive)	11.0 KV/mil (DC)		
Adhesion Properties			
Ultimate Peel from	Average		ASTM D 903 (Modified for 72 hour dwell time)
	Oz/In	(N/m)	
ABS	48	(528)	
Alykd Enamel Paint	35	(385)	
Conductive Solvent Screen Ink - Acheson Colloids 479SS	32	(352)	
Decorative Solvent Screen Ink - Coates Screen C-99 Series	35	(385)	
Decorative UV Screen Ink - Coates Screen PD Series	68	(748)	
Decorative UV Screen Ink - Nazdar 3400 Series	104	(1144)	
Decorative UV Screen Ink - Nor-Cote Int'l MSK Series	105	(1155)	
Dielectric UV Screen Ink - Acheson Colloids 452SS	50	(550)	
Polycarbonate	105	(1155)	
Polyester	95	(1045)	
Expected Shear			ASTM D 3654 Method A a. 1 hr. dwell b. 1 sq. in. surface c. 4 lb. load
Room Temp (hours)	100+		
Tack (gm/sq cm)	170		ASTM D 2979
Expected Exterior Life	Two years		
Service Temperature Range	-40°F to 302°F (-40°C to 150°C) with polyester film		
Minimum Application Temperature	50°F (10°C)		
Storage Stability	Two years stored at 70°F (21°C) and 50% RH		

Product Performance and Suitability

All of the descriptive information, the typical performance data, and recommendations for the use of FLEXcon products shall be used only as a guide and do not reflect the specification or specification range for any particular property of the product. Furnishing such information is merely an attempt to assist you after you have indicated your contemplated use and shall in no event constitute a warranty of any kind by FLEXcon. All purchasers of FLEXcon products shall be responsible for independently determining the suitability of the material for the purpose for which it is purchased. No distributor, salesman, or representative of FLEXcon is authorized to give any warranty, guaranty, or make any representation in addition or contrary to the above.

Last Modified On: 02/19/2024

FLEXcon 1 FLEXcon Industrial Park, Spencer, MA 01562-2642, Telephone (508) 885-8440 FAX (508) 885-8355 www.FLEXcon.com