

MACtouch T 4040

GENERAL INTRODUCTION

PRODUCT DESCRIPTION

TYPICAL APPLICATION

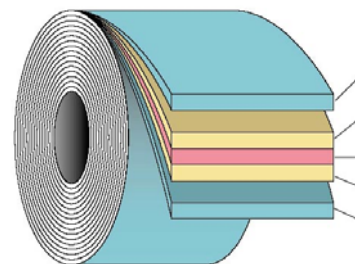
CHARACTERISTICS

SHELF LIFE

MACtouch is a double-sided adhesive system especially designed for the assembly of membrane switches. The range consists of mounting tapes and spacer tapes of different thicknesses. All these products have superior stay-flat and die-cutting properties. They are available in roll and sheet form.

MACtouch T 4040

- Consists of a 12 µ polyester film coated on both sides with an acrylic adhesive. It offers high tack, high peel properties and high shear resistance.
- Is protected by 2 moisture stable paper liners.



Siliconised white paper
Modified Acrylic adhesive
PET film 12µ
Modified Acrylic adhesive
Siliconised yellow paper

Assembly of Membrane Switch Panels.

Adhesion with Substrates

Metal / Aluminium	High	Textile/Cotton	High
Glass / Ceramics	High	Rubber/EPDM	Medium
Painted Surface	High	Acrylic/PET	High
Wood/Board/Paper	High	Polystyrene	High
Soft PVC	Low	PP/PE/PS	High
Rigid PVC	High	Smooth substrate	High
PC/ABS	High	Rough substrate	High

Chemical Properties

Copper corrosiveness	N.A.	Resistant to:	
Chlorine contents(ppm)	< 100	Water	Good
Sulphur contents (ppm)	< 100	Detergents	Good
		Dilute acids & alkalis	Good
		Concentrated alkalis	Poor
		Concentrated acids	Poor
		Aliphatic hydrocarbons	Fair
		Ketones & esters	Poor
		Chlorinated hydrocarbons	Poor
		Aromatic hydrocarbons	Poor

2 years when stored at 15°C to 25°C and + - 50% relative humidity

Electrical Properties			
Dielectric strength (Kv/mm) Surface resistivity (Ω) Volume resistivity (Ω cm) Permittivity	At 23°C (50Hz)	380	DIN 40634
	At 23°C (50% RH)	> 10 ¹⁴ (*)	DIN 53482
	At 23°C	10 ¹⁸ (*)	DIN 40634
	At 23°C (50Hz)	3.3	DIN 40634
	At 23°C (1 KHz)	3.3	
	At 23°C (1MHz)	3.2	
	At 0°C (50Hz)	3.3	
	At 50°C (50Hz)	3.3	
	At 100°C (50Hz)	3.3	
	At 150°C (50Hz)	3.6	
Power factor	At 23°C (50Hz)	0.002	DIN 40634
	At 23°C (1 KHz)	0.005	
	At 23°C (1 MHz)	0.021	
	At 0°C (50Hz)	0.004	
	At 50°C (50Hz)	0.001	
	At 100°C (50Hz)	0.007	
	At 150°C (50Hz)	0.005	

(*) Measured on a 12 μ thick foil.

ADHESIVE DATA

	TYPICAL VALUES (*)	TEST METHOD
Quick Tack (N/25mm) on stainless steel	20	FTM 9
Peel 180°- (N/25mm) on stainless steel		
	- after 20 minutes	20
- after 24 hours	24	FTM 1
Shear (hours) 1kg-25 mm x 25mm	250	FTM 8

CARRIER DATA

	TYPICAL VALUES (*)	TEST METHOD
Thickness (μ)	12	ISO 534
Tensile (N/15mm) (min.)	MD 25 CD 27	DIN 53455
Elongation (%) (max.)	MD 180 CD 180	DIN 53455
Min. application temperature	+ 10°C	
End-use temperature range	- 40°C to + 90°C	
Shrinkage 60' at 120° on aluminium (%)	0.75	FTM 14 modified

For temperatures outside those quoted above, please consult with MACtac.

TEMPERATURE RESISTANCE

RELEASE
LINER

THICKNESS
(Carrier+Adhesive)

1. Silicone paper yellow of 90 gr/sqm	ISO 536
2. Silicone paper white of 90 gr/sqm	ISO 536
90 μ	ISO 534

(*) Values given are typical and are not necessarily for use in specifications.

IMPORTANT NOTICE

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