

MACtouch T 4040

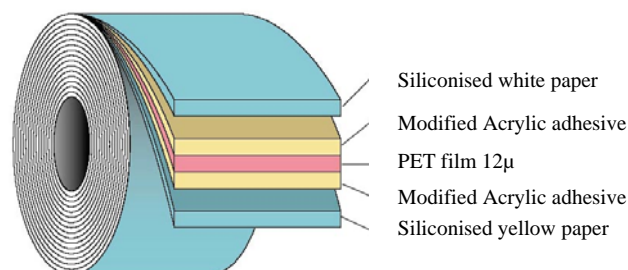
GENERAL INTRODUCTION

PRODUCT DESCRIPTION

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.



TYPICAL APPLICATION

Assembly of Membrane Switch Panels.

CHARACTERISTICS

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

SHELF LIFE

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 Power factor	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	
	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	16	FTM 9
Peel 180°- (N/25mm) on stainless steel		
- after 20 minutes	20	FTM 1
- after 24 hours	24	FTM 1
Shear (hours) 1kg-25 mm x 25mm	50	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 60 CD 60	DIN 53455
Min. application temperature	+ 10°C	
End-use temperature range	- 40°C to + 80°C	
Shrinkage 60' at 120° on aluminium (%)	0.75	FTM 14 modified
<i>For temperatures outside those quoted above, please consult with MACtac.</i>		

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

All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning MACtac products are based upon research which the Company believes to be reliable but such information do not constitute a warranty. Because of the variety of possible uses for MACtac products and the continuing development of new uses, the purchaser should carefully consider the fitness and performance of the product for each intended use and the purchaser assumes all risks in connection with such use. Seller shall not be liable for damages in excess of the purchase price of the product or for incidental or consequential damages. All specifications are subject to change without prior notice.