

MACtouch T 4020 T

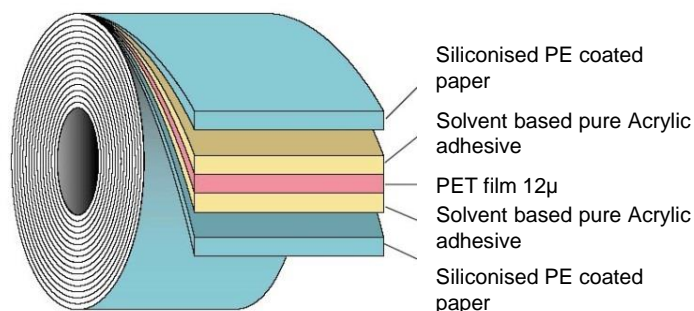
GENERAL INTRODUCTION

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.

PRODUCT DESCRIPTION

MACtouch T 4020 T consists of a 12 μ polyester film coated on both sides with a solvent based pure acrylic adhesive. It offers high tack, high peel properties and high shear resistance.



MACtouch T 4020 T is protected by 2 moisture stable paper liners.

TYPICAL APPLICATION

Assembly of Membrane Switch Panels.

CHARACTERISTICS

Adhesion with Substrates

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

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	Good
		Ketones & esters	Fair
		Chlorinated hydrocarbons	Poor
		Aromatic Hydrocarbons	Poor

SHELF LIFE

2 years when stored at 15/25° C and 50 % relative humidity.

Electrical Properties

Dielectric strength (Kv/mm)	At 23°C (50Hz)	380	DIN 40634	
	Surface resistivity (Ω)	At 23°C (50% RH)	> 10 ¹⁴ (*)	DIN 53482
		Volume resistivity (Ω cm)	At 23°C	10 ¹⁸ (*)
	Permittivity	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
	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 12μ thick foil

ADHESIVE DATA

	Typical Values (*)	Test Method
Quick Tack (N/25mm)		
On brushed stainless steel (ref. Nokoro 304 poli. N°4)	19	FTM 9
Peel 180° - (N/25mm)		
on brushed stainless steel (ref. Nokoro 304 poli. N°4)	20	FTM 1
- after 20 minutes	21	FTM 1
- After 24 hours		
Shear on brushed stainless steel (ref. Nokoro 304 poli. N°4) 1kg – 25mmx25mm (hours)	> 1000	FTM 8

CARRIER DATA

	Typical Values (*)	Test Method
Thickness (μ)	12	ISO 534
Tensile (N/15mm)	MD 25 CD 27	DIN 53455
Elongation (%) (max.)	MD 180 CD 180	DIN 53455

TEMPERATURE RESISTANCE

Minimum Application Temperature	+ 5°C
End-use temperature range	- 40°C to + 180°C

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

RELEASE LINER**THICKNESS**
(Carrier + adhesive)

1. White PE coated kraft paper of 100 gr/sqm, non printed	ISO 536
2. White PE coated kraft paper of 100 gr/sqm, printed in grey	ISO 536
90 μ	ISO 534

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

IMPORTANT NOTICE

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