

MACtouch T 4023 T

GENERAL INTRODUCTION

PRODUCT DESCRIPTION

TYPICAL APPLICATION

CHARACTERISTICS

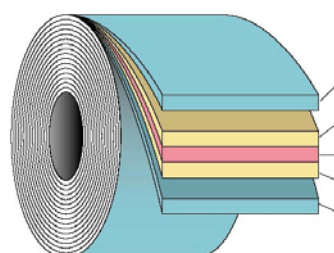
SHELF LIFE

ADDITIONAL INFORMATION

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 4023 T

- 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.



White PE coated siliconised paper
Pure Acrylic adhesive
PET film 12µ
Pure Acrylic adhesive
Brown PE coated siliconised paper

Assembly of Membrane Switch Panels.

Automotive: fixing mirrors onto suitable mounting plates, sensors for security airbags

Adhesion with Substrates

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

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

IMDS – automotive registration : T4023 T has been introduced in the IMDS (International Material Data System)

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	19	FTM 9
Peel 180°- (N/25mm) on stainless steel		
	- after 20 minutes	16
- after 24 hours	17	FTM 1
Shear (hours) 1kg-25 mm x 25mm	> 1000	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 90 CD 90	DIN 53455
Min. application temperature	+ 5°C	
End-use temperature range	- 40°C to + 180°C	
Shrinkage 60' at 120° C on aluminium (%)	0.3	FTM 14 modified

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

TEMPERATURE RESISTANCE

RELEASE
LINER

THICKNESS
(Carrier+Adhesive)

1. Silicone paper white of 100 gr/sqm, non printed	ISO 536
2. Silicone paper brown of 100 gr/sqm, non printed	ISO 536
88 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.