



*Self-adhesive Digital Imaging Media for wide-format inkjet Printing*

**JT 5409 RUV**

**Technical Data Sheet**

2 year optically clear, anti-scratch, Top Coated Polyester film

**PRODUCT DESCRIPTION**

FACE MATERIAL : 50µm optically clear, anti-scratch, top coated PET film  
 ADHESIVE : Removable clear acrylic.  
 LINER : 36µm clear PET film

**TYPICAL USES**

Ultra-Clear, gloss **non-PVC** film for short to medium term advertising on glass surfaces.  
 Glass window advertising, displays, signboards, backlit applications (internally illuminated signs).  
**The film is 100% phthalate & chlorine free!**

**PRINTING**

**Especially designed for wide-format UV inkjet printing using flexible UV inks.**

To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles can be obtained from our Subsidiaries, Distributors or can be downloaded from [www.mactac-europe.com](http://www.mactac-europe.com). Printer & Heater settings and ICC profiles are also downloadable from some of the OEM's web sites.

**PHYSICAL PROPERTIES OF THE UNPRINTED FILM**

	<u>Average values</u>	<u>Test method</u>
<b>Adhesive Data, 23°C</b> Quick Tack on glass Peel 24 hours on glass	6 ± 2N/25 mm ≤ 3 N/25mm	FTM 9 FTM 1
<b>Dimensional stability</b> shrinkage : 48 hours at 70°C (applied on aluminium)	none	FTM 14
<b>Temperature ranges</b> Minimum application temperature : Service temperature range :	+ 5°C - 40C to + 100°C	

**SHELF LIFE**

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

**EXPECTED DURABILITY**

The expected vertical outdoor durability of the unprocessed product in Central Europe (Zone 1) is up to 2 years. This information is based on successful real life experience and artificial aging according to ISO4892-3.

Note : Overlamination of the inkjet printed material delays eventual colour fading that may occur upon time. This colour fading is dependent from the quality of the inkjet inks, the orientation of the printed material, the angle of display and the exact location of exposure on the Globe.

Exposure to severe temperatures, ultra-violet light as well as conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure. No durability warranty is given for horizontal exposure. For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACTac print media and laminates".

## RECOMMENDATIONS

Always test the combination of JT 5000 products, inks and laminating films prior to commercial use.

### Printing conditions

A conditioned pressroom,  $\pm 23^{\circ}\text{C}$  and 50 % R.H.

### Laminating

If the printed graphics is likely to be exposed to corrosive liquids, smoke, fumes, highly polluted areas or if there is a likelihood of scratching or friction or to ensure longer durability, **it is strongly recommended to laminate the prints with pressure-sensitive protective film Permacolor LUV 7036 (PET film).**

MACTac denies responsibility for product failure if non-MACTac laminting films are used for the application.

### Transportation conditions

To allow easy transportation, IMAGin JT series can be rolled up, with the image on the outside, with a minimum diameter of 15 cm (for example on a 6 inches core). To avoid exposing the print to any liquid aggressions, prints should be protected by a plastic bag. During the transport or storage of the prints, avoid exposing them to extreme temperature and humidity variations.

## APPLICATION

The easiest way to apply the product is by using the wet method:

- Clean the window with isopropyl alcohol (the window must be clean and dust free)
- Moisten the window and the self-adhesive side of JT 5409 RUV using a water sprayer.  
The water layer allows the product to slide into the correct position.
- Press down using a felt squeegee moving your hand from left to right over the printed material.  
Don't use a plastic squeegee or any other sharp or blunt object to fix the product this may damage the printed decal.
- Wipe the sides of the window using a soft and clean cloth to remove any excess water
- If needed, trim the excess material away from the rubber (silicon) seals of the window.

## GENERAL REMARK : factors affecting adhesion

To ensure application suitability - always test the proposed construction under actual application and end-use conditions before going into full production.

The following factors will adversely affect adhesion of a pressure-sensitive adhesive:

- \* Dusty, dirty, oily or oxidized surfaces
- \* Mould release agents on blow-moulded plastic surfaces
- \* Low surface energy substrates, such as: polyethylene, polypropylene...
- \* Application below the minimum application temperature or use outside of the recommended service temperature ranges.

### **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 is based upon research which the Company believes to be reliable although such information does not constitute a warranty.*

*Because of the variety of uses of MACTac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.*

*All specifications are subject to change without prior notice.*