

Technical Data Sheet

JT 1428 SP

IMAGin

The IMAGin JT1000 are a series of self-adhesive printing media especially designed for water based printing inks. These mediae allow the production of high resolution large and medium size digital prints with both pigmented and dye inks.

PRODUCT DESCRIPTION

JT 1428 SP

- is 100% PVC free
- it is a premium printing media based on a 100 µm white matt topcoated polyolefin with unique ink-receptive characteristics which offers excellent printing with brilliant colours.
- is coated on one side with a clear semi-permanent emulsion adhesive. This adhesive is protected with an easy to remove paper liner.
- dries very quickly even with fastest WB printing machines
- is suitable for internal and external applications on flat or slightly curved surfaces such as posters, display, exhibition panels..
- In indoor applications, lamination is recommended with PG7034 to have a 100% PVC free construction. LF3800, PG7200 and PG7400 series can also be used for both indoor and outdoor applications. All lamination should be made with an overlap of a few cm around the image in order to avoid any water penetration which would maculate the printed images
- can be processed on cutter-plotters, providing therefore a wide scope of creative designs.

PHYSICAL PROPERTIES

	<u>Typical values</u>	<u>Test method</u>
<u>Adhesive data, 23 °C</u>		
Quick Tack on glass (N/25 mm)	7-9	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	4-6	FTM 1
- after 24 hours	5.5-7.5	FTM 1
Dimensional stability,		FTM 14
48h at 70 °C on aluminium, (MD & CD)	<0.2%	Sample mounted on aluminium
<u>Release liner</u>		
White clay coated kraft paper liner (g/m ²)	135	ISO 536
<u>Thickness</u>		
Film + adhesive (µm)	125	ISO 534 (ASTM D 645)

HEAT RESISTANCE

Application temperature range : + 5°C to + 40°C

End-use temperature range : - 30°C to + 80°C

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

CHEMICAL RESISTANCE (unprinted material)

Resistant to short periods of immersion in water and short contact with detergents, alcohol and some aliphatic solvents. Not recommended for contact with glycerol, isobutyl acetate, mineral spirits, aromatic and chlorinated hydrocarbons.

Avoid direct contact with unbleached paper, phosphite phenols and smoke (some yellowing could appear).

For further technical advice, please consult with MACtac.

SHELF LIFE

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

DURABILITY

The durability of **JT 1428 SP** is dependant on the life expectancy of the water based pigmented inks used (please refer to inks manufacturer for technical advice). When printed with water based pigmented, UV and water resistant inks and processed as indicated in our "Technical Bulletin 7.3 – Working with the JT 1800 - 1900 series", external application of the **JT 1428 SP** is for a maximum period of 2 years and requires overlamination and edge sealing. Edge sealing is not mandatory for outdoor exposure less than 6 months.

Please contact MACtac for further compatibility and ink advice.

RECOMMENDATIONS

Always test the combination of **JT 1428 SP**, inkjet printers, inks and laminating films prior to commercial use.

- **Printing conditions**

JT 1428 SP should be handled with care as any surface contamination may affect the printing quality. It is recommended to work in a print room environment with a temperature of + 23°C and a R.H. of 50 % and to condition the media in the printing room 24 hours before printing.

JT 1428 SP can be printed on most water based inkjet systems (thermal or piezo head) but it is recommended to calibrate the ink deposit of the printer in order to reach the optimal results. Some ICC profiles are available on our web site. Others may be available through your local MACtac distributor.

- **Laminating conditions**

Please ensure that the printed **JT 1428 SP** is perfectly dry before laminating. If the printed graphics is likely to be exposed to water, high humidity, corrosive liquids, smoke fumes, highly polluted areas or if there is a likelihood of scratching or friction, or to ensure longer durability, it is mandatory to laminate the prints with pressure sensitive protective films from the PG7200 or the IMAGin LF3800 series and edge seal it according to the recommendations detailed in our «Technical Bulletin 7.4 – Overlaminating and Edge Sealing Recommendations».

- **Transportation conditions**

To allow easy transportation, **IMAGin JT 1428 SP** can be rolled up, with the image on the outside, with a minimum diameter of 10 to 15 cm (for example on a 6 inches core).

When the image is not protected with a laminating film, make sure that the print is perfectly dry before rolling it up. To avoid exposing the print to water or any other aggressive liquids, 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.

For more details on MACtac products, please consult our website : www.mactac-europe.com

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.