

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

CastRAP 629 B-Free

Technical Data Sheet

10 years cast PVC film for fleet marking & car wrapping

PRODUCT DESCRIPTION

- FACE MATERIAL : 50 µ Gloss soft, polymeric plasticized, cast PVC film.
- ADHESIVE : Micro-structured repositionable permanent opaque acrylic.
- LINER : Highly stable 145 gsm white micro-embossed PE coated paper.

TYPICAL USES

Long term outdoor polymeric cast PVC film for vehicle markings on flat, curved, embossed or riveted surfaces.

Product benefits : dry application at it's best!

A patented performance feature enabling the Applicator of the printed decal to apply much faster and to limit the risks of wrinkles and entrapped air bubbles generally associated with the application of large format decals.

B-Free series therefore save time by increasing productivity during the application job. The micro-structured repositionable adhesive system allows the installer to remove and re-apply the decals during the job. It is possible to press out small entrapped air bubbles with ease!

Remark: do not use the wet application method to apply B-Free products.

PRINTING

Especially designed for solvent, eco-solvent, mild solvent and Latex inkjet printing on wide-format printing equipment.

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

Printer & Heater settings and ICC profiles are also downloadable from some of the OEM's web sites.

Important notice : It is **CRITICAL** that any digital prints are **TOTALLY DRY** before application. While this is important for all films in the JT 5000 range it is even more important for the special tack system of B-Free CastRAP.

If the film is not dried sufficiently the vinyl and adhesive will still be full of solvents which change the properties and consequently the behaviour of the film. The customer will therefore not benefit from the bubble free effect enough to reduce application time. It can also cause adhesive residue to be left behind and lack of repositionability.

This is also important when laminating the printed decal.

PHYSICAL PROPERTIES OF THE UNPRINTED FILM

	<u>Average values</u>	<u>Test method</u>
<u>Adhesive Data, 23°C</u>		
Quick Tack on glass	17±3 N/25 mm	FTM 9
Peel 24 hours on glass	16±3 N/25 mm	FTM 1
<u>Dimensional stability</u>		
shrinkage : 48 hours at 70°C (applied on aluminium)	Max 0.2 mm	FTM 14
<u>Flammability</u>	Self-extinguishing applied on Alu panels	MACTac internal test method
<u>Temperature ranges</u>		
Minimum application temperature :	+ 10°C	
Service temperature range :	- 20°C to + 70°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 10 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, ± 23°C and 50 % R.H.

□ Laminating conditions

Please ensure the print is perfectly dry. The printed material should be left to dry for at least 48 hours prior to lamination or transport. Additional hot air drying or IR drying will speed up the drying process and shorten the overall drying time.

As 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 CastLAM Gloss, CastLAM Matte or Permacolor HORIZon™.

MACtac denies responsibility for product failure if non-MACtac laminating 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).

When the image is not protected with a laminating film, make sure that the print is perfectly dry before rolling it over. 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.

3D APPLICATIONS of the printed & laminated product

Special care must be taken to apply this product in full 3D applications (i.e. concave surfaces, rivets). The proper application method is explained in our Application Guide (available on our web site) or on our Application CD).

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.