Technical Data Sheet

JT 10700 WG-BFG Wrapping Films

Long term cast vinyl – full 3D wraps

➔ Construction

FACE MATERIAL	50 µm white gloss, cast PVC
ADHESIVE	Permanent bubble-free Grey Solvent-based
LINER	Highly stable 145 g/sqm white micro-embossed PE coated paper

➔ Advantages

• Extreme conformability on 3D surfaces and corrugations
• Excellent printability on all main platforms
• Durable over time
• Mactac adhesive - repositionable plus soft initial tack for easy handling
• Fast and efficient bubble-free application
• High opacity, with grey adhesive
• ICC profiles available for optimal printing

➔ Surface type compatibility

The product is developed for vehicle markings on flat, curved, embossed or riveted surfaces.

➔ Applications

- JT 10700 WG-BFG is an excellent choice for long term promotional applications on 3D surfaces and is especially suited for partial or total wrapping of vehicles and corrugated surfaces.

➔ Printing

This product is especially designed for eco-solvent and Latex inkjet printing on wide-format printing equipment. UV printing is also possible as long the selected inks are flexible enough for the expected deformation.
If printed on UV, please adapt your print speed and curing settings. Please refer to the printer manufacturer settings for thin, soft media.
To achieve the best possible print quality, please make sure that the correct ICC profiles and printer settings are used. Profiles can be obtained from our Subsidiaries, Distributors or can be downloaded from www.mactacgraphics.eu.
The ICC profiles are provided solely as a customer resource. Print environments, the individual nature of printing systems, inks and software can significantly affect output. It is the customer's responsibility to determine the suitability of any profile for use in their specific print environment.

Print room conditions: Print in conditioned pressroom at ± 23°C (73°F) and 50% RH. The maximum allowable ink saturation is 270%.

Note: for the best results during application, it is very important that the print is totally dry. The solvent presence softens the film and makes it more stretchable. An improperly dried print will reduce the adhesive performance and increase the risk of edge lifting, excessive shrinkage, delamination and excessive adhesive transfer. We recommend placing the printed graphic into an additional drying unit for at least 24h (preferably at 30°C). If no additional drying unit is available, we recommend a longer drying time of 36 – 48h with the print laid out on a flat surface or hung to dry with enough space to allow good air flow over the surface of the film. Keeping the graphic tightly rolled up will not allow the solvents to evaporate.
If the film is not dried sufficiently the vinyl and adhesive will still be full of solvents which change the properties and consequently the behavior 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.

➔ Lamination

If the printed graphic 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 **LF 10700 Series** or **Permacolor HORIZon™.**
The protective lamination process needs to be carried out after the print is totally dry – please see the note above in the printing paragraph.
Mactac denies responsibility for product failure if non-Mactac laminating films are used for the application.

➔ Application Method

JT 10700 WG-BFG must be applied following the general self adhesive application guidelines and the Technical Bulletin 4.17, both available on our website, www.mactacgraphics.eu, section Customer Support.

The wet method for application is not recommended.

Limitations: Due to the wide variability of substrates, sealants and paints, no claims for unsuccessful applications onto or removal are accepted by Mactac.
It is the users' responsibility to determine, by prior testing, the products suitability for the intended surface.

➔ Expected Durability

The expected outdoor durability of the product in Central Europe (Zone 1) is **up to 7 years** for vertical unprinted applications**, up to 4 years for vertical**

printed applications and up to 2 years for horizontal printed applications**.**

This information is based on successful real life experience and artificial aging according to ISO 4892-2.
Note: Overlamination of the inkjet printed material delays eventual color fading that may occur upon time. This color 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.

For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACtac print media and laminates".

➔ Shelf Life

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

➔ Physical Properties

	TYPICAL VALUES	TEST METHOD
Adhesive data, 23°C Quick Tack on Glass (N/25 mm) Peel 24h on Glass (N/25 mm)	 17 11	 FTM 9 FTM 1
Dimensional stability shrinkage: 48 hours at 70°C (applied on aluminum)	Max 0.3 mm	FTM 14
Temperature ranges Minimum application temperature: Service temperature range	 + 10°C -20°C to + 70°C	
Flammability Applied on aluminum plates	Self-extinguishing	Mactac Test Method

➔ Transport

To allow easy transportation, **JT 10700 WG-BFG** can be rolled up, with the image on the outside, with a minimum diameter of 15 cm (for example on a 6 inches' core). Make sure the print is completely dry and protected in a plastic bag. During transportation or storage, avoid exposing the print to extreme temperature and humidity changes.

➔ 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 removability of **JT 10700 WG-BFG** may be affected by the following substrates: polystyrene, nitrocellulose painted surfaces and soft PVC. With such substrates an increase of adhesion over time may occur and adhesive residue on removal may be noticed.
The following factors can change the adhesion of the self-adhesive product

- Dust, dirt, grease, oxidation
- Low tension surfaces like polyethylene, polypropylene, etc.
- Application below the minimum application temperature or use outside of the recommended service temperature ranges must be avoided.

IMPORTANT NOTICE

DISCLAIMER

All Mactac statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Mactac products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see http://terms.europe.averydennison.com

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