

INTRODUCTION

POSTMOULD graphics are a printed long-term ink construction coated with heat-activated adhesive. It is designed specifically for post decoration of rotational moulded products, both indoor and outdoor applications. POSTMOULD's can be printed in both spot or CMYK process featuring brilliant opacity when back-printed with White. These graphics are applied using a heat-transfer process and become fully moulded onto the product during this process.

APPLICATIONS AND FEATURES

- Excellent outdoor durability
- Fastest application time
- Excellent chemical and abrasion resistance
- Opaque and bright colours
- Superior colour matching ability
- Suited for most PE materials
- UV Protective Coats

SURFACE FINISH

POSTMOULD graphics feature a Semi-Gloss finish however will 'take on' the surface texture of the part i.e. polished surfaces will result in a Glossier graphic finish than on a textured surface.

PERFORMANCE & PHYSICAL DATA

Property	Test Method	Typical Value
Thickness	Micrometre	3mil (76 micron)
Shelf Life	Free from moisture, temperature and direct sunlight	Unlimited
Application Temperature	On polished MDPE surface	70-90°C (158-194°F)
Outdoor Life	Weatherometer ENG0111 Procedure 5.0 – QUV test	2000 hrs unchanged 3000 hours no fade
Adhesion to plastics	ASTM Test Method D-3359-76 and DIN Standard No. 53159 on MDPE	4-5
Suitable Substrates	Rotational, injection and blow moulding	PE, ABS, Nylon

POSTMOULD

Permanent Graphics for Plastic

GENERAL APPLICATION

POSTMOULD is a long-time favourite due to;

- It's ease of application
- Ability to print both with screen and digital processes
- Flexibility of application i.e. at time of moulding or days/months later
- Unlimited shelf life in temperate climates
- Bright and opaque finish

Print quality and DPI is unmatched by other systems.

TYPICAL APPLICATION PROCESS

POSTMOULD graphics are supplied on an easy-release, clear transfer backing sheet which also greatly assists alignment onto the plastic surface. Plastic is flame-treated in the desired application area and once graphic is perfectly aligned, squeegeed onto the part to remove trapped air, then followed by a burnishing process to complete transfer. Once transfer is complete, the graphic appears flush with the product surface. Final flaming will ensure maximum bond onto part. The clear coat offers excellent resistance to water, solvents, abrasion and UV exposure. See our more detailed guides and videos for more information.

SPECIAL CONSIDERATIONS

- Pre and post flame treatment is essential to ensure maximum bond.
- The heat-activated adhesive assists application correctly positioning graphic during transfer process so ensure thorough squeegee process prior to burnishing
- Release agents, additional adhesives and residues on plastic surface may affect adhesion to part.
- Warming product or wider than application area may improve transfer process, especially with HDPE products or large graphics.
- A textured part may require a light sand to smooth the area to improve the adhesion. Typically, polished areas will ensure a consistent result.
- Trapped air bubbles between the graphic and the part will burn and blister. Lance any air-bubbles to avoid this.

For more trouble-shooting refer to our PCPA (Problems Caused and Preventative Actions). The user is responsible for determining whether the graphic is fit for the purpose or suitable for the users' application. PSI Brand cannot guarantee the longevity of your graphic unless recommended processes are strictly adhered to.

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OUR GUARANTEE

If a product supplied by PSI Brand is proven to be defective, PSI Brand promises a “Refund or replace it” guarantee.

PRE-PRODUCTION TESTS

It is strongly recommended that graphics are tested prior to production. Product surfaces can vary due to different coatings and textures. Graphics kept in poor storage conditions will also vary in performance (due to aging) causing poor adhesion to the product.

Ensuring the application area is free from release agent, dust, residues and harsh textures such as shot-peened will improve the results. More tips for trouble-shooting in our PCPA.

OUTDOOR USE

Accelerated weather tests have been conducted on graphics in QUV and Xenon Weatherometers. Under these conditions INMOULD Original graphics withstood any significant surface damage up to 2000 hours. Accelerated weathering tests cannot be specifically related to actual outdoor performance, but it is considered that 2000 hours of exposure approximately equates to up to 5 years’ outdoor exposure in temperate climates.

COLOUR OPTIONS

We use the PANTONE matching system so please quote PMS Matching numbers to ensure closest match. Alternatively, ship a colour correct sample to us for matching.

Half-tones and CMYK colour process are possible with POSTMOULD’s, featuring up to 85dpi, this equates to approx. 170dpi. This allows us to print full photographic images if required. See examples on our website www.psibrand.com.

SAFETY AND HANDLING

Refer to MSDS for safety, handling and waste disposal. In summary POSTMOULD graphics are non-hazardous, fully recyclable moulded and fully comply with CPSIA, ROHS and REACH standards and regulations.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, moulds, surfaces, moulding materials and other tools or additives vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.