

Films

Toner
Water
(eco) Solvent
UVgel / UV
Latex

IJM723 Magnetic PET Film 300µm

Product Description This flexible Magnetic PET Film 300µm is an easy-to-use magnetic polyester based film that can be easily and quickly installed by untrained personnel. It can be applied to almost any steel-based surface to meet the demands for changeable graphics. It is durable and reduces the lifecycle cost.

Physical Properties

Thickness	300 µm	ISO 534	Magnetic Force	8-10 g/cm ²	ISO 538
Weight	635 g/m ²	ISO 536	Surface	Satin	

All values are target values

Applications/features

Retail advertising	Magnetic polyester-based film
Trade show graphics	Easy application
Interior decoration	Re-usable
Wall graphics	PVC Free
POS Displays	

Available Widths (mm)

3" core	1270						
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Refer for our current offering to www.canon-europe.com/mediaguide

Storage Conditions

Shelf life 1 year. Temperature 10°C - 35°C, Relative Humidity 30% - 70%
Repack opened rolls when not in use. Allow material to adapt to room conditions for 24 hours before printing.

Print Conditions

Best results are obtained between 20 ± 3°C and 50 ± 5% RH.
Refer also to printer specification

Environment, Health & Safety

No Material Safety Data Sheet required.

Lamination Compatibility

Cold	Warm	Hot	Cold: pressure sensitive Warm: heat activated: 85°C - 95°C Hot: heat activated: 105°C -130°C
Yes	no	no	

Outdoor Use

Limited use outdoor.

Colour Profiles

Canon develops high-quality colour profiles for media / ink / printer / RIP combinations.
Check availability of profiles for your printer on www.canon-europe.com/mediaguide

Processing Guidelines

Printing guidelines

Allow material to adapt to room conditions for 24 hours before printing. It is recommended to handle the media with cotton gloves. Make sure that the media comes not into contact with grease, oil, silicon, and dirt to avoid printing defects. It is recommended to calibrate the printer before printing and to make a test print. Print results will vary for different printer ink/toner combinations. Ink/toner restrictions and printer settings have to be set for specific printer-ink/toner combinations to obtain the best results. Canon media profiles will set optimal restrictions and printer-settings for Canon supported printers.

Application guidelines

It is recommended to ship the printed graphics in a cardboard or plastic tube protected by a paper or plastic sleeve.

The printed graphics can be laminated, before laminating the print has to dry completely laid out flat. Liquid lamination is recommended, cold/self-adhesive lamination is also possible, however this type of laminate may cause stress in the material resulting in curl and failures. Hot/ warm lamination is not recommended as this may cause stress in the material.

Temperatures under -20 °C and above +80 °C change the structure of magnetic sheets and may cause the products to permanently lose some of their adhesive force. Therefore, do not use them in places with extremely high or low temperatures and set your print parameters accordingly.

The maximum magnetic force can only be achieved on smooth surfaces and with full contact. The sheet needs to be placed flat and directly on the counterpart and without bubbles.

Vertical mounting is the best method, horizontal mounting will result in a lower holding force. Draw a vertical line on the mounting surface to align the first panel vertically. Remove the release liner from the Magnetic Base Film. Apply the Magnetic Base Film to the mounting surface with a squeegee, starting at the top, from the centre to the sides. Mount the second panel, panels should not overlap. Leave a 1 mm gap between the panels to allow thermal expansion. Do not stretch the material during mounting. Due to the weight of the material it is recommended to fix the self-adhesive material at the top with some staples for extra security.

For post-processing, It is recommended to use a Rotary knife when cutting UV prints to minimize ink chipping.

Standard disclaimer:

All specifications subject to change without notice. All company and/or product names are trademarks and/or registered trademarks of their respective manufacturers in their markets and/or countries.

Guidelines for the correct use and maintenance of printable flexible magnetic films

Observing this instruction will extend the life of magnetic material and prevent damage to equipment and the surfaces to which the product is applied.

1. Storage

- Store the roll of unused magnetic film vertically in its original packaging to prevent deformation of the material in a dry, cool and dark place.
- Do not stack sheets with the magnetic sides touching each other.
- Do not put heavy objects on the sheets or rolls.
- Keep the material away from strong (electro) magnetic fields.
- Do NOT fold the material.

2. Environmental conditions

- Magnetic films can be used between -20°C and +70°C. For a short period temperatures up to 80 °C are allowed. Use outside this temperature range may affect the magnetic properties and material characteristics permanently.

3. Use and handling

- Magnetic materials adhere to iron/steel surfaces but do not adhere to stainless steel, aluminium, non-ferrous metals, polyester, plastics, etc.
- Magnetic holding force depends on the thickness of the magnetic layer. The 850-micron version is recommended for fast moving vehicles.
- Before applying the material to a painted steel surface make sure that the paint or wax is fully cured. Freshly painted surfaces will take approximately 90 days, waxed surfaces 2 days to cure.
- Vinyl film or a thick layer of paint or coating will create an "air" gap and decrease the magnetic holding force.
- Be sure the film is applied on a flat surface and avoid air bubbles and gaps caused by stickers or trim.
- If the film has not been applied to the correct spot, remove it completely and re-apply otherwise the material may stretch and/or scratch the surface.
- For best results the magnetic sign and surface should be applied at a temperature of 15°C or above.
- Do not use on surfaces exposed to direct sunlight that may reach temperatures above 70 °C.
- Long-term use of magnetic film on surfaces exposed to strong UV radiation may cause uneven fading of the surface it is mounted on.
- Avoid using magnetic graphics at extreme low temperatures below -20 °C. Cold weather will make the magnetic film brittle, use caution when handling the film at low temperatures.
- Magnetic film does not rust, but remove and clean the magnetic film to avoid build-up of moisture between the film and the metallic surface. It is recommended to do this weekly, daily on new cars.
- Always remove the magnetic film in a carwash or when using a high pressure washer.
- Weekly removal of the graphic prevents magnetic polarisation of the vehicles surface under the graphic.

4. Printing tips

- Some printers may not detect the media because of the dark reverse side. In most printers this can be overcome by placing a white sticker over the media sensor.
- In some printers the magnetic material may be attracted by the sheet metal in the printer and block the media transport. To overcome this the sheet metal parts can be covered with a sheet of paper, used release liner or polyester film.
- Check the printer temperatures settings to avoid damage and deformation of the material and if the printer can handle the type, weight and thickness of the material.
- The material can be cut with scissors, a sharp knife and die cut.
- WARNING:** Do not run the printer unattended, it may not detect the end of media (4a. - 4b.) and continue printing after the media is finished which will cause contamination and damage to the printer. Using these workaround is the sole responsibility of the user. The distributor / manufacturer cannot be held liable for damage to the equipment.

5. General recommendations

- Because of the large variety of printing techniques, ink and surfaces to which the product is applied it is strongly recommended to carry out a preliminary test before starting production. Although extensive tests have shown that painted surfaces are not damaged by our magnetic films when recommendations are followed, we cannot guarantee that there will be an adverse reaction between the material and the paintwork.

Note to Distributors and Sign Makers:

It is in your own interest to pass on this information to your clients.