# RITRAMA

**TECHNICAL DATA SHEET**
ISSUE: 1
DATE: 16/08/2021

# Ri-Jet M100 Hi-Grip

**PRODUCT DESCRIPTION / BENEFITS**

Ri-Jet M100 Hi-Grip series is a self-adhesive film for Large Format Digital printing, designed for short-term application on flat apolar surfaces.
The monomeric vinyl, UV stabilised, has an external colour stability up to 3 years, specially developed to be printed with solvent, eco-solvent, latex, and UV inkjet printing presses.
The 100 µm film thickness grants good ink absorption without making the face film too soft, which allows easier application. The solvent-based Hi-Grip adhesive provides a good adhesion on low surface energy substrates such as PE and PP.
The 135 g/m² coated kraft paper ensures good planarity and printing results.
All products are REACH & RoHS compliant.

**TYPICAL USE**

- Short term outdoor/indoor advertising on apolar substrates, such as motocross tanks, quad bikes, Go Karts, etc ...
- Temporary point of sale advertising.

**CONSTRUCTION**

- **Face film:** 100 µm calendered monomeric film
- **Adhesive:** high tack clear solvent-based acrylic
- **Release liner:** clay coated kraft paper 135 g/m²

**Products:**
White Gloss finish: Code 09668 - **Ri-Jet M100 White Gloss Hi-Grip**

**CONVERTING METHOD**

Specially developed to be printed with solvent, eco-solvent, latex, and UV inkjet printing presses.
To achieve the best possible print quality, make sure that the correct ICC profiles or printer settings are used. The printed media should dry minimum 24h prior to lamination.
We suggest a lamination with Ri-Lam M70 Clear Gloss, Matt or Satin to protect the printed image from UV fading and mechanical abrasion.
Not suitable for sheeting (adhesive bleeding).

**APPLICATION METHOD / INSTRUCTIONS FOR USE**

Dry and wet application method on clean and degreased substrates.
Application temperature above 10°C.
The Hi-Grip adhesive has a low cohesion. Therefore, the film will tend to shrink.
Ri-Jet M100 Hi-Grip series is not suitable to big surface coverage needing multiple overlapped width. We recommend leaving 0.5 cm unprinted area around the printed poster edge.

**EXPECTED DURABILITY**

The expected vertical outdoor durability in Central Europe (zone 1) is 3 years.
This information is based on real file experience and artificial aging according to ISO 4892-2.
Note: Exposure to severe temperature and ultra-violet light will cause a quicker deterioration. This applies also to polluted area, high altitude, horizontal applications, and south-facing exposure in north hemisphere.

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**SHELF LIFE**

Shelf life is 2 years, when stored at 23 °C and 50 % relative humidity conditions.
Higher temperatures and/or humidity levels will reduce product shelf life.
NB: Printing results start to deteriorate after 12 months storage.

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**PHYSICO-CHEMICAL PROPERTIES / TYPICAL VALUES**

| | | |
|---|---|---|
| Face thickness, without adhesive | 100 µm | ISO 534-80 |
| Face thickness, with adhesive | 135 µm | ISO 534-80 |
| Tensile strength (machine direction) | > 25 N/cm | ISO 527 |
| Elongation at break (machine direction) | >150% | ISO 527 |
| Fire resistance on aluminium | Self-extinguishing | ISO 3795:1989 |
| Dimensional stability (1 week @70 °C on glass) | 2.0 mm | FTM 14 |
| Initial adhesion on glass (20 minutes) | 13 N/25mm | FTM 1 |
| Adhesion on glass (24 hours) | 20 N/25mm | FTM 1 |
| Final adhesion on glass (1 week) | 22 N/25mm | FTM 1 |
| Adhesion on PE (24 hours) | 10 N/25mm | FTM 1 |
| Minimum application temperature | +10 °C | |
| Service temperature | From -40 °C to +90 °C | |
| One side siliconized clay coated paper liner | 135 g/m$^2$ | ISO 536 |

**QUALITY CERTIFICATION**

QUALITY SYSTEM CERTIFICATION
DNV
ISO 9001