

## Self-adhesive vinyl

|               |
|---------------|
| Toner         |
| Water         |
| (eco) Solvent |
| UVgel / UV    |
| Latex         |

# IJM645 Polymeric Vinyl Gloss Grey Permanent – B1 80 µm

### Product Description

IJM645 is a durable high quality, polymeric, PVC film with a glossy finish and a permanent grey opaque adhesive suitable for long-term outdoor use.

### Physical Properties

|                 |                      |         |                                 |            |            |
|-----------------|----------------------|---------|---------------------------------|------------|------------|
| Thickness film  | 80 µm                | ISO 534 | Adhesion on steel after 20 min. | 8 N/25mm   | AFERA 5001 |
| Weight adhesive | 20 g/m <sup>2</sup>  | ISO 536 | Adhesion on steel after 24 h.   | 11 N/25mm  | AFERA 5001 |
| Total thickness | 100 µm               | ISO 534 | Dimensional stability MD/CD     | <-3% / <0% | FTM 14     |
| Weight liner    | 140 g/m <sup>2</sup> | ISO 536 | Flame Retandancy                | B1         | DIN4102    |
|                 |                      |         | Durability*                     | 7 years    |            |

All values listed are target values

### Applications/features

Indoor and outdoor signage  
Long term advertising  
Vehicle Graphics (flat surface)  
High gloss, white surface  
Permanent, grey poly-acrylic adhesive for opacity  
PE coated release liner, excellent lay flat

### Available Widths (mm)

|        |      |      |      |  |  |  |  |  |  |  |
|--------|------|------|------|--|--|--|--|--|--|--|
| 3"core | 1050 | 1370 | 1600 |  |  |  |  |  |  |  |
|--------|------|------|------|--|--|--|--|--|--|--|

Refer for our current offering to [www.canon-europe.com/mediaguide](http://www.canon-europe.com/mediaguide)

### Storage Conditions

Shelf life: 2 year in a cool and dry environment. Temperature 18-22°C, Relative Humidity 50-60%  
Repack opened rolls when not in use.

### Print Conditions

Best results are obtained between 15-30°C and 30-60% RH.

### Environment, Health & Safety

No Material Safety Data Sheet required.

### Lamination Compatibility

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

### Outdoor Use

This PVC is suited for long term outdoor applications. The outdoor durability of the unprinted vinyl is 7 years for vertical exposure. The durability depends on the substrate's preparation, the atmospheric conditions and environmental influences. Exposure to extreme conditions (tropical climate, high humidity, high UV-light exposure or polluted areas) can decrease the durability dramatically.

### Colour Profiles

Canon develops high-quality colour profiles for various media / ink / printer / RIP combinations. Check availability of profiles for your printer on [www.canon-europe.com/mediaguide](http://www.canon-europe.com/mediaguide)

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**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. Insert the film with care in the printer. Incorrect loading can cause skewing or creasing. It is recommended to calibrate the printer before printing and to make a test print. Print results will vary for different printer ink combinations. Canon media profiles include recommended settings for ink restrictions and printer parameters. Depending on environment and application, printer parameters may have to be adjusted slightly in order to obtain the best results.

**Application guidelines**

Optimal bonding properties are obtained on smooth and flat, dirt-and grease-free surfaces. Fresh lacquered surfaces should not be used for the application of the vinyl foil. Pre-testing the adhesive onto unknown surfaces is strongly advised.

When applying the vinyl temperature should be higher as 10 °C. Application temperature range from -40°C to +90°C.

IJM645 can be used outdoor without lamination. However, we recommend protecting the vinyl if is subject to mechanical abrasion. Lamination protects against UV and improves contrast and colour brilliance.

Let the prints dry for at least 48hr before laminating it. Use only pressure sensitive laminates.

For removal we recommend to start with one corner and slowly peel off the surface with a 60° – 90° peel angle. It may be helpful to use a hot-air blower but this must be used with caution to avoid surface damage.

\* The estimated durability is based on accelerated ageing tests and refers to a vertical exposure under middle European climates. The durability of the product depends on the substrate's preparation, the atmospheric conditions and the environmental influence. Exposure to extreme conditions (tropical climate, high humidity, high UV-light exposure or polluted areas) can decrease the durability in a dramatically way.

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English edition 0715  
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