

Version #1 (1117)
Approved by J. S.

Product

IMAGin® JX999R

Product Description

JX999R is a 2.6 mil soft **clear gloss**, polymeric stabilized PVC film designed for solvent-based ink jet printing. The product is coated on one side with a clear removable, solvent acrylic pressure sensitive adhesive and supplied with an 86# Kraft liner.

JX999R is designed long-term outdoor advertising and promotion on flat or slightly curved surfaces.

Physical Properties

| Property | Typical Values | Test Method |
|--|--|--|
| Peel Adhesion lb./in. (N/25mm) 180° on glass - 24 hr. | 0.45 - 1.4 (2 - 6) | FTM - 1 |
| Quick Tack, lb./in² (N/25mm) Glass | 0.9 - 1.8 (4 - 8) | FTM - 9 |
| Dimensional Stability, (%) 48 hours @ 158°F | max 0.5 | FTM - 14 10" x 10" Sample Bonded to aluminum |
| Temperature Ranges Minimum Application: End Use: | 50°F (+10°C) -40°F to 194°F (-40°C to 90°C) | |

Approved Printing Processes:

| | | | |
|---------------------------|-------------------------------------|-------------------------|-------------------------------------|
| Screen Printing: | | HP Indigo | <input type="checkbox"/> |
| UV Cured | <input type="checkbox"/> | Off-set | <input type="checkbox"/> |
| Solvent | <input type="checkbox"/> | Off-set UV | <input type="checkbox"/> |
| Digital: UV Inkjet | <input checked="" type="checkbox"/> | Thermal Transfer | <input checked="" type="checkbox"/> |
| Eco-solvent | <input checked="" type="checkbox"/> | Flexographic * | <input type="checkbox"/> |
| True solvent | <input checked="" type="checkbox"/> | Laser | <input type="checkbox"/> |
| Latex | <input checked="" type="checkbox"/> | Jetrion | <input checked="" type="checkbox"/> |

To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles can be obtained from our Distributors or can be downloaded from

mactac.com . Printer and heater settings and ICC profiles can also be downloaded from some O.E.M. or software manufacturer's websites.

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.

Durability

The outdoor durability of the unprinted film is 5 years. JX999R has up to 2 year's removability after application. Overlamination of the inkjet-printed material with Permacolor® or IMAGin overlaminates delays color fading that may occur over time. This color fading is mainly dependent upon the inks quality (see technical data sheets given by the ink manufacturers) and the pressure sensitive media being used.

Shelf Life

2 year from D.O.M. when stored at 60/77°F (15/25°C) and 50% relative humidity in the original package.

Glass Breakage

Mactac accepts no liability for glass breakage due to temperature differences across the glass which can be caused by sunlight on dark areas of the graphic. Size, thickness, quality of cut, edge treatment, tinting and frame design all effect temperature stress.

Limitations

- 1) The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
- 2) If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
- 3) If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version.**

Recommendations

Always test your combination of JX999R print media with your inks and laminating films prior to commercial use.

- 1) Printing Conditions:** Print in conditioned pressroom at $\pm 73^{\circ}\text{F}$ (23°C) and 50% RH. The maximum allowable ink saturation is 270%.
- 2) Drying Requirements:** Solvent, Eco-solvent and Mild-solvent inkjet prints require 24 - 48 hr. drying time - open to the air. Inks do not dry when printed media is rolled up. The prints must be dry prior to cutting and lamination.
- 3) Laminating Conditions:** If the printed graphic is likely to be exposed to corrosive liquids, smoke, fumes, and highly polluted areas or there is a likelihood of scratching, it is highly recommended to laminate with **Permacolor LF3600** series (high performance) or **ColorGard LUV** Series (intermediate) overlaminating films.

- 4) **Transportation Conditions:** To allow for easy transportation, IMAGin JX999R can be rolled up, with the image out, with a minimum diameter of 6 inches (15cm). When the image is not protected by an overlamine, make sure the print is completely dry and protected in a plastic bag. During transportation or storage, avoid exposing them to extreme temperature
- 5) **Application:** IMAGin JX999R can be applied wet or dry. For a perfect application we recommend a wet application.
- 6) **Removal:** JX999R is cleanly removable for up to two years off most surfaces. The removability 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.

- *Values given are typical and are not necessarily for use in specification.*

IMPORTANT NOTICE: The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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