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Version #4 (0414)
Approved by J. S.

Product

IMAGin® Verde™ Digital Print Media VM3209R

Product Description

VM3209R is a 100% chlorine and phthalate free film. It is a 2-mil gloss, ultra-clear, topcoated and scratch resistant polyester film designed for UV digital printing. The product is coated on one side with a removable, clear acrylic pressure sensitive adhesive protected with a 1.4-mil Polyester release liner.

VM3209R print media is a **non-PVC** film designed for short to medium-term advertising on glass surfaces such as: glass windows, displays, signboards, and in backlit applications.

Verde products are REACH* compliant.

Physical Properties

Property	Typical Values	Test Method
Quick Tack, lb. /in² (N/25mm) Glass	0.9 - 1.8 (6±2)	FTM - 9
Peel Adhesion lb./in. (N/25 mm) 180° on Glass - 24 hr.	≤ 0.7 (≤ 3)	FTM-1
Dimensional Stability, % 48 hours @ 158°F (70°C)	None	FTM- 14 10" x10" Sample Bonded to aluminum
Temperature Range Minimum Application: End Use:	40°F (+5°C) -40°F to 212°F (-40°C to 100°C)	

Durability

The outdoor durability of the unprinted film is 2 years.

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.

Approved Print Materials

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 type="checkbox"/>
Eco-solvent	<input type="checkbox"/>	Flexographic *	<input type="checkbox"/>
True solvent	<input type="checkbox"/>	Laser	<input type="checkbox"/>
Latex	<input type="checkbox"/>	Jetrion	<input 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 www.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.

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 IMAGin products, 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) **Laminating Conditions:** Laminating is not typically required for this film.
- 3) **Transportation Conditions:** To allow for easy transportation, IMAGin VM3209R 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 and humidity changes.
- 4) **Application:** The easiest way to apply this film is with the wet method.
 - a) Moisten the window and the exposed adhesive with application fluid or water.
 - b) Align your graphic on the window,
 - c) Firmly press down using a felt squeegee with a left to right movement.
 - d) Wipe sides with soft cloth to remove excess application fluid.
 - e) Trim excess material away from the rubber or silicone window seals.



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- *Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.*

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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