www.Mactac.com

Version #2 (0822)
Approved by A. S.

Product

IMAGin® M-Dot MD228

Product Description

MD228 is a 4.0-mil **matte white** PVC film designed for solvent, eco-solvent, Latex, UV inkjet printing. The product is coated on one side with a semi-sphere structured, clear removable, acrylic pressure sensitive adhesive and supplied with a 90# WKPE liner.
MD228 is designed for short term indoor and outdoor advertising and promotion on flat, smooth surfaces. Examples include: windows, walls, trade shows, POP or POS advertising, discount campaigns.

Physical Properties

Property	Typical Values	Test Method
Film Thickness **Total thickness**	4.0 mil 10.0 mil	
Peel Adhesion **Lb./in. (g/25mm)** 180° on glass- 24 mins.	0.44-1.10(200-500)	FTM-1
Quick Tack, lb./in² (N/25mm) Stainless Steel	0.55 (250)	FTM - 9
Dimensional Stability, (in) 48 hours @ 158°F	max 1.0	FTM - 14 10" x 10" Sample Bonded to aluminum
Temperature Ranges Minimum Application: End Use:	50°F (10°C) -4°F to 158°F (-20°C to 70°C)	
Property	Typical Values	Test Method

Approved Print Materials

Screen Printing:		**HP Indigo**	☐
UV Cured	☐	**Off-set**	☐
Solvent	☐	**Off-set UV**	☐
Digital: UV Inkjet	☒	**Thermal Transfer**	☐
Eco-solvent	☒	**Flexographic ***	☐
True solvent	☒		
Latex	☒		

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.

Durability

The indoor durability of this film is up to 1 year. This product is designed for short term indoor and applications. It can be used outdoors in locations well protected from water for very short term applications, at your own risk. Over-lamination of this inkjet-printed media is not recommended.

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.

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 ±73°F (23°C) and 50% RH. Ink saturation should not exceed 270%.
   NOTE: If printing on UV, please modify your print speed and curing settings for thin, soft media. Refer to your printer manufacturer's user guide for these settings.
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 lamination. Improperly dried prints will reduce adhesive performance and increase the risk of edge lifting and excessive shrinkage.
3) **Laminating Conditions:** We do not recommend lamination for this product.
4) **Transportation Conditions:** To allow for easy transportation, IMAGin series can be rolled up, with the image out, with a minimum diameter of 6 inches (15cm). When the image is not protected by an overlaminate, 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.
5) **Application:** follow the general pressure sensitive application methods.
   Do not apply using the Wet application method.

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

CALL **1-800-321-8834 for additional product information**

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.

™ Trademark of Morgan Adhesives Company LLC
® Registered Trademark of Morgan Adhesives Company LLC
www.Mactac.com