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Approved by A. S.

Product

IMAGin® PN628 Permanent Wall Noodle Graphic 6 mil Semi-Rigid PVC

Product Description

PN628P is a 6.0-mil **matte** white, semi rigid calendared PVC film designed for UV screen, UV-gel, UV inkjet, latex, solvent and eco-solvent ink jet and UV off-set printing. The product is coated on one side with a permanent acrylic pressure sensitive adhesive and supplied with a 72# P.E. coated kraft liner.

PN628 is specifically designed with a permanent adhesive for indoor wall posters, murals and graphics on smooth, flat drywall surfaces. Permanent Wall Noodle can be used on many other flat surfaces, however, we strongly recommend one tests first for suitability.

Physical Properties

Property	Typical Values	Test Method
Thickness, inches (µm) Film plus adhesive	0.007 (200)	ASTM-D645
Quick Tack lb. /in² (N/25mm) Stainless Steel	2.3 (10)	Mactac CTM-25
Peel Adhesion lb./in. (N/25 mm) 180° on Stainless Steel - 30 min - 24 hrs.	3.4 (14.9) 5.3 (23.2)	ASTM D-903
Dimensional Stability, (%) 48 hours @ 158°F (70°C) MD CD	0.20 0.10	MACTac CTM-21 (Method D) 10" x 10" Sample Bonded to aluminum
Surface Burning Characteristics (Meets: ANSI, NFPA and IFC as class A, UL 10 B C) Flame Spread Smoke Density	20 160	ASTM E84-01 or ANSI/NFPA 255 or IFC 8-1 UL 10 B & C
Temperature Range Minimum Application: End Use:	50°F (+10°C) -40°F to 180°F (-40°C to 82°C)	

Durability

The outdoor durability of the unprinted film is 4 years. Overlamination of the inkjet-printed material with Permacolor® 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 years from Date of Manufacture when stored at 60/77°F (15/25°C) and 50% relative humidity in the original package.

Approved Printing Methods

Screen Printing:		HP Indigo	<input type="checkbox"/>
UV Cured	<input checked="" type="checkbox"/>	Off-set	<input type="checkbox"/>
Solvent	<input checked="" type="checkbox"/>	UV Off-set	<input checked="" type="checkbox"/>
WF Digital: UV Inkjet	<input checked="" type="checkbox"/>	Thermal Transfer	<input type="checkbox"/>
Eco-solvent	<input checked="" type="checkbox"/>	Flexographic *	<input checked="" type="checkbox"/>
True solvent	<input checked="" type="checkbox"/>	UV Flexographic	<input checked="" type="checkbox"/>
Canon UVgel 356	<input checked="" type="checkbox"/>	Narrow Web UV Inkjet	<input checked="" type="checkbox"/>
Latex	<input checked="" type="checkbox"/>		

* **Flexographic Printing** requires a topcoat. WVG000113 and WVF010516 have been approved by ACTEGA Coatings and Sealants (www.altana.com) as in-line coat-able ink primers.

To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles 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

Due to the wide variability of interior walls, sealants and paints, no claims for successful applications to or removal from painted wall surfaces are made by Mactac. It is the users' responsibility to determine the products suitability for the intended wall.

- 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 PN628 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%.
 - a. Images printed with solvent inks must be thoroughly dried prior to rolling for shipment. Retained solvent will affect edge adhesion.
- 2) **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 ColorGard LUV Series** (intermediate) or **PromoGard** (economy) overlaminating films.
- 3) **Transportation Conditions:** To allow for easy transportation, IMAGin media 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.
- 4) **Installation Instructions (Reference TA2500 for detailed drywall applications):**
 - a. Before installing, unroll and lay flat. Allow the printed graphic to relax at room temperature for at least 90 minutes.
 - b. Do not allow the adhesive to touch any other areas of the product as this may result in damage to your graphic or the wall.
 - c. Do not install your PN628 onto cold or damp surfaces, or anywhere near heaters, fires or central heating radiators.
 - d. If the wall has been freshly painted, allow it to fully cure, at least one week prior to installation. **Consult your paint manufacturer for proper cure times.**
 - e. Mactac recommends a test strip be included in the graphic for the end user to test on their walls. For best results insure the wall has a flat, smooth, even, dry surface. Avoid textured surfaces including textured paints, wallpapers, stucco, scrub-able paints, etc.
 - f. Make sure your graphic will fit in the area. Measure your wall and your graphic.
 - g. Use a clean alcohol saturated cloth to remove any dust from your wall surface. You may need a damp cloth or cleaners to remove excessive dirt and dust followed by the alcohol wipe. If so, allow an additional 24 hours to dry as many surfaces absorb moisture like a sponge!
 - h. Spread out your graphic on a flat surface, face down. Begin peeling back the liner off from the top down about 2 – 5 inches, and fold under. Position the graphic on the wall. Once it is in place, lightly tack down the exposed adhesive. Using a squeegee, smooth down the rest of the exposed adhesive working top down and from the center out. Remove 6 – 10" additional liner and apply with squeegee. Again working from the top down and from the center out.
 - i. Continue in this manner until the entire graphic has been applied.
 - j. For wall murals plan the graphic with a one inch overlap.
 - k. Finish, by re-squeegeeing all the outer edges and overlapping seams to insure good contact with the wall surface.

5) **Removal Instructions:**

- a. Use of heat, using an industrial heat gun, to soften the adhesive can assist with removal from the wall.
 - b. Starting in a corner, carefully pry up the vinyl from the wall.
 - c. Pull back at a 90° angle to create the least amount of stress on the painted surface underneath the graphic.
 - d. Continue peeling at a slow speed, keeping the angle 90° and diagonal to the panel
 - e. For best results, remove slowly.
 - f. PN628 is a permanent adhesive system; removal from drywall most likely will result in damage to the wall. This product is **not** warranted for clean, undamaged, removal.
- *Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.*

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.

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