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Approved by J. S.

Product

PERMACOLOR® Gemini XT™ PP5000 Series

Permacolor

The **Permacolor** system is a series of pressure sensitive products for mounting and overlaminating in the imaging industries. Pressure sensitive **Permacolor** provides fast, efficient processing through cold roll lamination techniques without the need for heat, drying or messy coating operations.

Product Description

The **PermaPrint** mounting films is a family of mounting adhesives with film carriers. These smooth adhesive constructions permit distortion-free mounting of photographic prints and other graphic images to a wide variety of substrates including Fome-Cor®, Gatorfoam®, Crescent® board, Masonite® and Sintra®.

PP5000 consists of a thin, **white polypropylene film** coated on both sides with an aggressive rubber based, pressure sensitive adhesive. A white, polycoated coated 2-side, moisture stable paper liner protects the adhesive.

PP5000 is an economically designed back-mounting film with high tack, high peel adhesion and high cohesive strength for a quick strong bond to a wide variety of mounting surfaces and efficient processing through most roll laminators. The single release liner (self-wound) permits easy lamination and eliminates the need to remove a second liner in applications where that may be difficult or impossible.

Physical Properties

Property	Typical Values	Test Method
Thickness, inches (µm) Carrier plus adhesive	0.005 (127)	ASTM-D645
Quick Tack lb. /in² (N/25mm) Stainless Steel	9.0 (39)	MACTac CTM-25
Peel Adhesion lb./in. (N/25 mm) 30 min. applied Stainless Steel Acrylic panels Sintra® board Digital film Digital Paper	11 (50) 12 (45) 4.5 (19) 6.3 (28) 5.3 (24)	ASTM D 903-49
Shear, Hours to Fail Stainless Steel	600+	FTM -8 1" x 1" x 1000g

Temperature Range Application for best results: End Use:	> 50°F -20° to 195°F (-30° to 90°C)	
Adhesive pH	Neutral	TAPPI-529

Durability

Five years or more indoors and up to 1 year outdoors. Please note that exposure to severe temperatures, ultra-violet light and also in tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure.

Shelf Life

Two years when stored at 68°F (20°C) and 50% relative humidity or less. Note: Mactac recommends that rolls be stored on end or suspended from the core.

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

1. Where exposure to chemicals, solvents or high pressure wash is anticipated, Mactac recommends sealing the edges with varnish, silicone or other sealant to prevent penetration by these liquids.
2. Prints should not be applied onto dusty, dirty, oily or oxidized surfaces.
3. The mounting board must be properly prepared prior to mounting the image. This may include wiping with alcohol, light sanding or surface sealing depending on the board. Contact your board supplier for their recommendation.
4. Mactac's pressure sensitive mounting films are intended for "Cold Roll Lamination" (50°F - 120°F). The addition of heat while simultaneous mounting with Thermal Overlaminates may result in curl or have other detrimental effects on the finished product.
5. PP5000 is **not** designed with 2nd surface mounting (face mounted applications) in mind.
6. Whenever possible, always test first to ensure end-use capability.
 - *Product reinforced with 2-mil polyester during adhesion testing.*
 - *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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