Permacolor Thermacolor 3mil 51" x 500' Matte Clear Thermal Overlaminate

Product Spec Sheet



Call Us at 1-800-944-4573



Version #7 (1017) Approved by J. S.

Product

Permacolor® TL5000 Matte

Product Description

Permacolor thermal overlaminating films are high quality, low temperature, heat activated films designed for the overlamination and encapsulation of graphic images. Permacolor protects the image from harmful ultra-violet (UV) light, moisture, dirt, oils and other potential contaminants. The use of Permacolor on one or two sides lends body to the image for easier handling and display.

TL5000 Series is a family of flat, no glare **(matte)** clear PET films with a heat activated, polymeric adhesive on one side. The use of *TL5000* lends depth and vibrancy to underlying images, has built in scratch resistance and offers a no-glare surface where bright overhead lighting makes glossy finished films impossible to see.

Physical Properties

Product Thickness: 3 mil (0.5/2.5)

Surface Appearance: Matte pH: 7.0

Heat Seal Initiation Temperature 190° (88°C) Roll Wind: Adhesive In Core Size: 3″ I.D.

Recommended Storage: Rolls should be stored on end or suspended.

Shelf Life

Two years when stored at 75°F (24°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

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Application

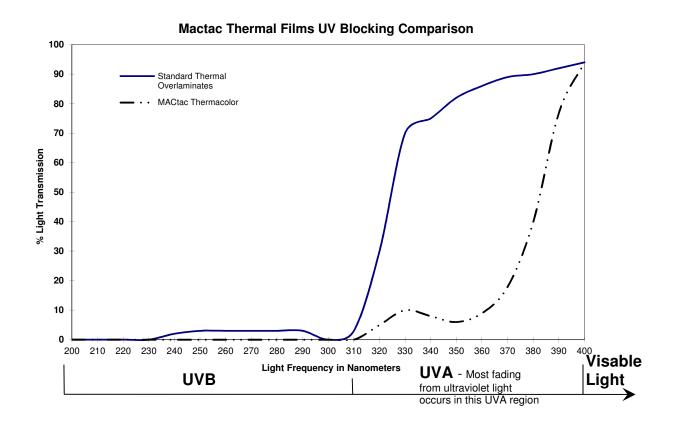
The suggested laminating temperature is approximately 220°F (104°C) for 3-mil, 240°F (115°C) for 5-mil and 260°F (127°C) for 10-mil at a throughput speed of 3 ft./minute. The temperature and/or speed may need to be adjusted depending on the specific laminating equipment, thickness of the film, and desired throughput speed.

To increase production speed, a temperature <u>increase</u> of 10 - 20°F (5 - 10°C) may permit operating at 10 ft. /minute.

A high temperature along with a slow running speed could cause blistering or waviness in the final laminate. Try reducing the temperature or increasing the speed to correct this problem

A low temperature and a high running speed could result in incomplete bonding, poor adhesive wet-out (sometimes referred to as "silvering"). To correct this problem, be sure adequate laminating pressure is being used, raise the temperature slightly, or slow the running speed.

Note: Users should determine their own specific lamination conditions in order to optimize performance and operating efficiency on their equipment.



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 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
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