



# PERFORMANCE GUIDE

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Approved by J. S.

**PRODUCT: THERMACOLOR®  
TL2000 High Gloss**

## PRODUCT DESCRIPTION

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

*TL2000* Series is a family of clear, glossy PET films with a heat activated, polymeric adhesive on one side. The use of *TL2000* lends depth and vibrancy to underlying images. Stiffness of the laminated image will vary with the Thermacolor thickness selected as well as whether or not it is used on both sides. The thicker products provide maximum protection.

## PRODUCT INFORMATION

Product Thickness:	3 mil (1/2), 5 mil (3/2) and 10 mil (7/3)
Surface Appearance:	High Gloss
pH:	7.0
Roll Wind:	Adhesive In
Core Size:	3" I.D.
Heat Seal Initiation Temperature	180° (82°C)
Recommended Storage:	Rolls should be stored on end or suspended.

## PROCESSING TIPS

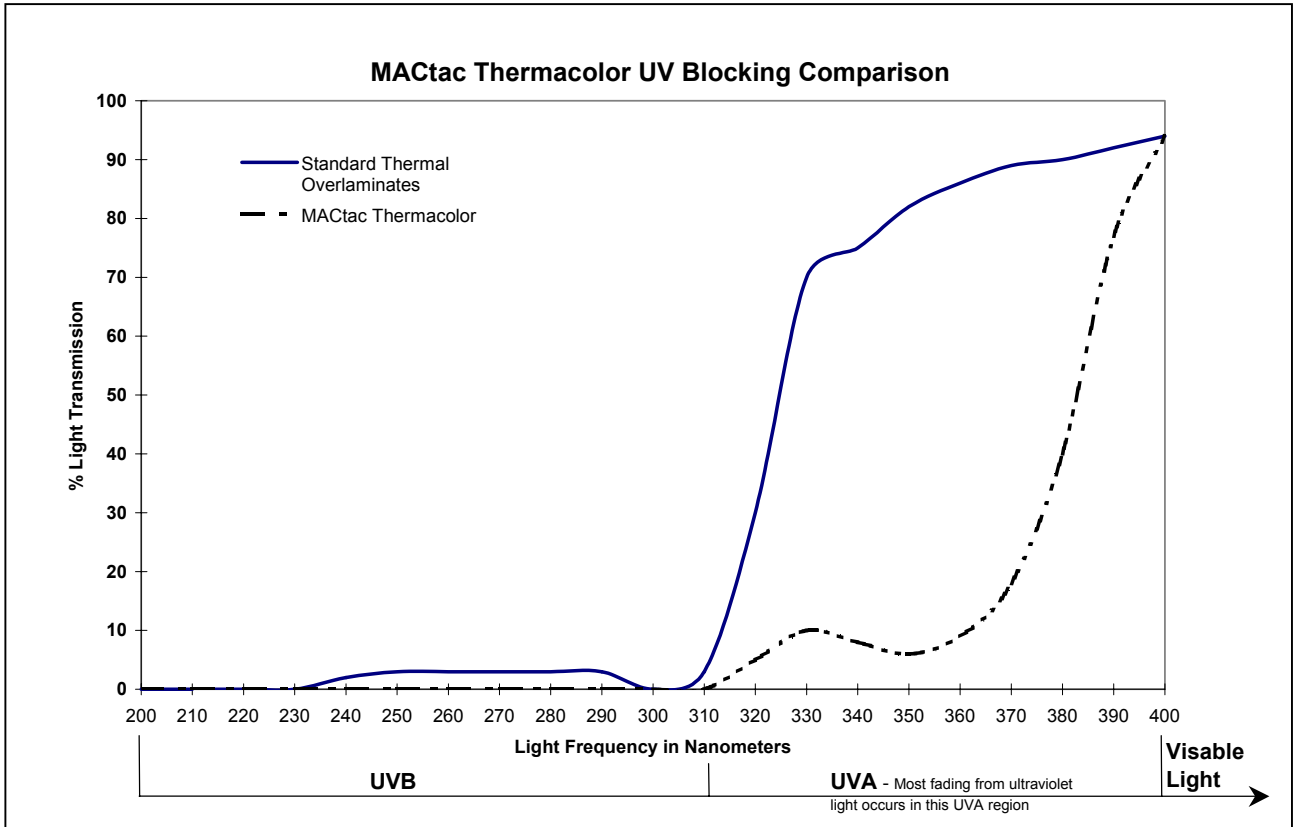
The suggested laminating temperature is approximately 190°F (88°C) for 3-mil, 200°F (94°C) for 5-mil and 210°F (99°C) for 10-mil Thermacolor at a throughput speed of 3 - 5 ft./minute. The temperature and/or speed may need to be adjusted depending on the specific laminating equipment, thickness of the Thermacolor, and desired throughput speed.

To increase production speed, a temperature increase 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. To correct this problem, try reducing the temperature or increasing the speed.

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.*



**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.

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

**CALL 1-800-401-5005 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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