

# GraphicShield™ PRODUCT APPLICATION GUIDE

## UV MATTE 3 MIL & 5 MIL LOW-MELT THERMAL LAMINATING FILMS

**GraphicShield™ UV MATTE** low-melt thermal laminating films are engineered with UV inhibitors to reduce graphic fade and protect against moisture. It features an adhesive that enhances clarity by sealing at 185° F. The low sealing temperature helps preserve inks in digitally printed graphics, which can deteriorate at high temperatures. **UV MATTE** low-melt thermal laminating film is ideal for protecting posters, wide-format digital prints, photographic prints and display applications when a non-reflective finish is desired.

### PHYSICAL PROPERTIES

|                 |                                                | 3 MIL    | 5 MIL    |
|-----------------|------------------------------------------------|----------|----------|
| Total Caliper:  |                                                | 3.0 mils | 5.0 mils |
| Film:           | Polyester                                      | 1.0 mils | 3.0 mils |
| Adhesive:       | Copolymer Extrusion                            | 2.0 mils | 2.0 mils |
| UVA Protection: |                                                | 85%      | 85%      |
| UVB Protection: |                                                | 100%     | 100%     |
| Shelf Life:     | 2 years when stored under cool, dry conditions |          |          |

### APPLICATION GUIDELINES

**Application:** It is recommended to use a laminator when applying **GraphicShield™ UV MATTE** low-melt thermal laminating film to imaged media or the surface of a mounting substrate. A laminator will reduce the chance of wrinkles and air bubbles during application. Make sure the lamination area is clean and free from dirt or dust. **Always pretest your specific application prior to actual use.**

**Outdoor and Indoor Use:** **UV MATTE** low-melt thermal laminating film can be used for indoor and outdoor applications. It should be applied at minimum air and surface temperatures of 50° F.

**Water Resistance:** **UV MATTE** low-melt thermal laminating film will not give water resistance unless the material to be laminated is non-porous or completely encapsulated. If water migrates under the laminate, ink bleeding may occur.

**Material Handling & Storage:** Roll imaged media onto a core until ready for posting. Folding of the material is not recommended. Material should be stored at 72° F (+/-5°) for no more than 2 years to obtain maximum adhesion values. After use, the roll should be stored in its original packaging in the poly bag.

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Heat Seal Temp       | 185° to 195° F                                                                         |
| Dwell                | 0,5 sec                                                                                |
| Pressure             | 40 psi                                                                                 |
| Recommended Speed    | 3 to 7 fpm                                                                             |
| Usable Temp Range    | 195° to 245° F                                                                         |
| Outdoor Durability:  | 2 years                                                                                |
| Chemical Resistance: | Water, mild acids, salt, alkalis, petroleum based greases, oils and aliphatic solvents |

### FINISHING RECOMMENDATIONS

**Surface Preparation:** Ensure that the receiving substrate is completely dried before **GraphicShield™ UV MATTE** low-melt thermal laminating film is applied. If inks are not dry, the adhesion of the laminate can be adversely affected; outgassing may also occur, causing bubbles to form under the laminate.

**Recommended Application Surfaces:** **UV MATTE** low-melt thermal laminating film can be applied to imaged media or a substrate.

**Laminating:** **UV MATTE** low-melt thermal laminating film gives added surface protection from dirt, abrasion and light fade. If too much tension is applied during lamination, the product may curl toward the laminated side, and the edges may lift from the release liner and/or the application surface. For optimum results, let images dry a minimum of 24 hours before laminating.



**GRAPHIC ART SUPPLY, INC.**  
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