

panoRama Protect is a glossy optically clear vinyl film designed for over laminating printed media. The product is designed for long-term outdoor, fleet or vehicle marking on flat or lightly curved surfaces. Additional UV protection is built into the over laminating film to help resist color fade caused by ultraviolet light. The perfect clarity (low haze) combined with high UV protection makes panoRama Protect the perfect match with panoRama one way vision window film. Don't forget: In order to protect your perforated window film from dust, humidity or contaminations while maintaining perfect transparency even in rain, lamination is essential!

## APPLICATIONS

- all panoRama one-way-vision films applied on lightly curved or flat surfaces
- especially developed to cover perforated film so that no dust, humidity or other contamination can penetrate the perforation
- recommended for applications where the best UV resistance and clarity is required even at extreme conditions

## ADVANTAGES

- for all types of printing method such as digital solvent, eco-solvent, screen printing or UV curable
- laminate stripes can be used as edge guard
- TÜV ABG : Continental Grafix Ltd. is owner of the AGB, the Federal German General Type Approval no. ~ D 5452, acc. to StVZO, the Federal German Road Traffic licensing Order, for the laminating film in combination with panoRama window film

# panoRama Protect

GLOSSY OPTICALLY CLEAR VINYL FILM



## MATERIAL

- vinyl film
  - 75 micron (3mil)
- clear permanent acrylic (solvent based) adhesive

## LINER

frosted polyester film  
- 50 micron (2mil), 46 g/m<sup>2</sup> +/- 10%

## LAMINATING METHOD

cold

## PRINTING METHOD

- digital
  - solvent, eco-solvent
  - UV curable inks
- screen printing

## SHRINKAGE

0%

## COHESION / ULTIMATE ADHESION

high / high

## TACK

medium

## CHEMICAL RESISTANCE

no effects

## MIN. APPLICATION TEMPERATURE

+10°C (+50°F)

## SERVICE RANGE TEMPERATURE

-10°C to +110°C (+14°F to 230°F)

## ADVICE

Please check our panoRama application and removal guidelines. Edge protection tape is recommended on vehicle graphics. Windshield wipers may damage / scratch the film.

Ensure print is perfectly dry prior to lamination. Slight surface mottling may appear in this high gloss film while in roll form due to softness of the film itself. This will disappear after one to two days after lamination all by itself. However, if waiting is not an option, applying a small amount of heat during the lamination process will remove the mottling. Use care not to stretch the film during the lamination process. Always maintain as little film tension as possible.

## Notes:

- 1) You may run conventional heat such as a hair dryer across the laminated print to help remove mottling.
- 2) Off-gassing of ink may cause haze effect which lasts for approximately one week on the printed image.

