

## TECHNICAL DATA SHEET

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	<b>Revision:</b> C
	<b>Date:</b> 09/11/2011
	<b>Replaces:</b> REVISION B
	<b>Authors:</b> RAS

### 1. Identification of the product

- 1.1 Commercial product name:** Contra Vision® Performance™ Laminating Film
- 1.2 Product Reference number:** CL25YYA
- 1.3 Supplier:** Contra Vision North America, Inc.  
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### 2. Description

Contra Vision® Performance™ CL25YYA is a clear, gloss polyester laminating film featuring a polyester liner.

Contra Vision® Performance™ CL25YYA laminating film is intended for lamination onto Contra Vision® Performance™ perforated self-adhesive vinyl to prevent water and dirt filling the perforated holes and impairing through vision. This film also offers UV protection, increased image life and an attractive gloss finish.

Contra Vision® Performance™ perforated self-adhesive vinyl laminated with CL25YYA is designed for use on flat surfaces only. Contra Vision® Performance™ CL25YYA laminating film is not recommended for overlaminating large areas of heavy ink coverage.

### 3. Use

These instructions must be carefully followed to ensure problem-free use.

Ensure that the printed perforated vinyl is perfectly dry prior to lamination. Make sure that the rollers of the laminator are clean and not damaged; the rollers are parallel to each other; the rollers are set at the correct temperature (cold) and pressure (50 – 70 psi); if the materials are narrower than the laminator, the materials are laminated in the centre of the laminator. Improper tension adjustment creating tension difference between the laminate and the perforated material is the major cause of tunneling, wrinkles and possible delaminating. Always set the lamination tension of the overlaminate and the perforated material in such a way that they are laminated flat but without stretching. Winding tension should be carefully monitored and kept at an appropriate level. For specific settings on the laminator, please consult the technical manual which goes with the laminator from the original supplier.

If, after lamination, it is necessary to roll the graphics, be sure to roll them loosely with the printed/laminated side out. If transporting the laminated graphics, lay them flat between layers of cardboard or other protective material, or roll the graphics with the printed/laminated side out onto a core that is large enough in diameter to prevent the liner and laminate from wrinkling or tunneling. Use a shipping tube whose diameter is large enough to easily accommodate the loosely rolled graphics.

After applying the laminating film, let the printed, overlaminated graphic sit for at least 24 hours before application to the glass to allow the laminating film's adhesive to bond adequately to the perforated vinyl.

Avoid stretching the laminated graphics during installation. If stretched, they may try to return to their original shape, causing the perforated vinyl to lift off the glass. Take great care not to introduce bubbles under the graphics during application, and never 'chase' bubbles across the graphics as this may lead to delamination.

The edges of the graphics can be sealed to give extra protection, especially for vehicle graphics. After printing, trim back the printed perforated vinyl but not the liner. Then apply the lamination film over the whole area and trim back the lamination film and liner to leave a 10mm (0.4 inch) overhang of lamination film around the edge of the printed perforated vinyl. Alternatively apply a 15mm (0.6 inch) strip of clear cast self-adhesive pvc overlapping onto the laminated graphics by 7mm (0.3 inch) and the surrounding glass by 8mm (0.3 inch). Contra Vision® Performance™ CL50CYA clear, gloss cast vinyl lamination film is ideal for this.

When approaching the minimum application temperature for the perforated vinyl, do not apply laminated perforated vinyl unless the ambient moisture level is low to avoid moisture being trapped in the perforated holes under the lamination film.

The graphics should not be washed within 24 hours of application to allow the adhesive to reach its ultimate strength.

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**4. Typical Properties**

PROPERTY	VALUE	NOTES
<b>Face film</b>	Clear gloss polyester	
<b>Thickness of face film</b>	25µm (1 mil)	
<b>Adhesive</b>	Transparent, permanent, solvent polyacrylate	
<b>Liner</b>	Single-sided silicone-coated polyester	
<b>Thickness of liner</b>	30µm (1.2 mil)	
<b>Minimum lamination temperature</b>	+10°C (50°F)	
<b>Durability</b>	2 years	Vertical applications only This refers to the overlaminate and not the protection that it gives the printed image.
<b>Shelf life</b>	2 years	Under ordinary condition at temperature of 22°C (72°F) and relative humidity of 50-55%

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