

## TECHNICAL DATA SHEET

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	<b>Revision:</b> B
	<b>Date:</b> 09/03/2011
	<b>Replaces:</b> VERSION A
	<b>Authors:</b> RAS

### 1. Identification of the product

- 1.1 Commercial product name:** Contra Vision® Performance™ Laminating Film
- 1.2 Product Reference number:** CL50CYA

### 2. Description

Contra Vision® Performance™ CL50CYA is a clear, gloss cast pvc laminating film featuring a polyester liner.

Contra Vision® Performance™ CL50CYA 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 CL50CYA is designed for use on flat and gently curving surfaces.

### 3. Use

Ensure that the printed perforated vinyl is perfectly dry prior to lamination.

Use a cold laminator to apply CL50CYA with proper tension control to prevent wrinkles and tunneling occurring. Do not stretch either the perforated vinyl or the laminating film during lamination as this can result in tunneling and/or wrinkles.

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 12 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 – they have a memory and, if stretched, may return to their original shape, causing the perforated vinyl to lift off the glass later.

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 CL50CYA overlapping onto the laminated graphics by 7mm (0.3 inch) and the surrounding glass by 8mm (0.3 inch).

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. To clean the graphics after laminating, spray a non-abrasive, non-solvent cleaner on a cloth, then wipe surface.

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### 4. Typical Properties

PROPERTY	VALUE	NOTES
<b>Face film</b>	Clear gloss cast pvc	
<b>Thickness of face film</b>	50µm (2 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>	5 years	Vertical applications only This refers to the overlamine 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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