

contraVision® Technical Data Sheet

Product Name:	Laminating Film	Page:	1/2
		Revision:	2 (CVNA)
Product Reference:	CL50CYE	Date:	01 February 2019
		Replaces:	A
		Authors:	RAS

Description

CL50CYE is a clear, gloss cast PVC laminating film featuring a polyester liner.

CL50CYE laminating film is intended for lamination onto Contra Vision® 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.

perforated self-adhesive vinyl laminated with CL50CYE is designed for use on flat and gently curving surfaces.

Typical Properties	
PROPERTY	VALUE
Face film	Clear gloss cast PVC
Film thickness	2 mil (50µm)
Hole pattern	N/A
Adhesive	Transparent, permanent, solvent polyacrylate
Liner	Single-sided silicone-coated polyester; 3 mil (75µm) thick
Liner weight	
Application temperature	
Peel adhesion 24 hours	
Peel adhesion 1 month	
Removability	
Durability	7 years Durability stated is for unprinted and untreated material correctly applied to an inert, vertical substrate subject to Mid-European weathering conditions. This refers to the overlamine itself, and not any extra durability that it gives the printed image.
Shrinkage	5 mil (0.13mm) after 158°F (70°C) for 48 hours
Service temp	-40°F to 175°F (-40°C to 79°C)
Shelf life	2 years Under ordinary condition at temperature of 72°F (22°C) and relative humidity of 50-55%
Other info	Minimum lamination temperature: 68°F (+ 20°C)

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Regulations

Substrate Recommendations

Application Recommendations

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

Use a cold laminator to apply CL50CYE with proper tension control, just enough to prevent wrinkles and tunneling occurring. There must be no tension difference between the laminate and the perforated window film. Do not stretch either the perforated vinyl or the laminating film during lamination as this can result in tunneling, wrinkles, delamination and the perforated window film to lift off the glass after application. Suggested pressure settings of 50-70psi running at 160-230ft/minute (50-70 metres/minute), but consult the laminator's technical manual.

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.

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.

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. Apply very gentle pressure using a hard squeegee.

Edge sealing is not generally necessary but is worth considering for vehicle applications. It improves the resistance to environmental damage and cleaning. There are two methods of edge sealing a graphic:

1. After printing, trim back the Contra Vision® perforated window film to the required size, but not the liner. Apply the laminating film over the whole area and then recut, leave at least 0.4 inch (10mm) overhang of lamination around the edge of the printed perforated window film.

2. Seal edges with strips of overlaminate. After applying to the window, apply a 0.8 inch (20mm) wide strip of CL50CYE laminating film (or ES-CL50CY Edge Sealer) over the edges of the graphic so each strip is equally placed over the perforated material and substrate.

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.

Do not wash 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. Do not use power washing equipment as powerful water jets can damage the overlaminate and cause the adhered graphic to fail.

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