Contra Vision® Cast Black Dual Color
BBCRW20A

BBCRW20A is a Cast PVC black perforated self-adhesive vinyl with 20% transparency; and a semi-permanent, pressure-sensitive adhesive, featuring a Replacement Liner. It is intended for the production of dual-color signage. When applied to the outside surface of the translucent panel of a built-up back-lit sign, the sign appears black during the day and when not back-lit, and takes on the colour of the translucent acrylic when back-lit at night. While not primarily designed for printed applications, this film is suitable for solvent, 'eco-solvent' latex inkjet printing, and screen-printing.

Face Film	Cast PVC
Adhesive	Clear solvent acrylic, pressure-sensitive
Adhesive Weight	25g/m²±5g/m²
Liner	Unperforated Replacement Liner. White paper PE and silicone coated on top side only.
Liner Weight	100g/m²±10g/m²
Removability	Not intended to be a removable product
Shrinkage	x direction ≦0.6%, y direction ≦0.6% FTM14
Service Temperature	-25°C to 65°C
Shelf Life	3 years under normal conditions at a temperature of 22°C and relative humidity of 50-55%

Print Types

- Eco-Solvent
- Latex or Resin

Application Recommendations

- Apply the film using a **dry application method**.
- Clean surfaces thoroughly to clear from dust, grease or any contamination; final clean with soap and water, rinse, and dry.
- **Not to be applied** to fresh paint, ink, polycarbonate, rubber, plastic moldings, and certain PVCs—in case of doubt, test prior to final application.
- Recommended for flat or gently curved surfaces only.
- Cut film back at least 3mm from any edges so the film finishes on a flat surface.
- Film **must not touch** rubber window moldings.
- Trim side-by-side panels to form a butt seam—**do not overlap.**
- Follow minimum application temperature and avoid washing within 24 hours of application.

Printing Recommendations

Replacement Liner construction is not recommended for use with UV curing inkjet printers. Depending on the brand of ink and density of the print, "bridging" can occur over the perforated holes after removal of the Replacement Liner, in relatively dark areas of a design. This is eliminated with Universal Liner. We therefore recommend Universal Liner for UV inkjet printing. After printing the ink must be thoroughly dry, including in the perforated holes in order to avoid any contamination, particularly during lamination.

This document is intended as a source of information, is given without guarantee, and does not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of the product for their specific intended purpose.

120µm
Film Thickness

20%
ø1.5mm
Transparency

10°C
min
Application temp

5 - 7
years
Durability

on static applications
See next page for more info

Peel Adhesion

Printed film on glass, typical value

9N/25mm
20 mins

10N/25mm
24 hours

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Fire rating

BS EN 13501. Certificate(s) can be found at **https://www.contravision.com/print-substrates/datasheets/**

Solar performance

Based on 3mm glass	No film	20% Transparency
Visible light transmission	90%	18%
Visible light reflection, exterior	8%	66%
Visible light reflection, interior	8%	12%
UV transmission	40%	8%
Solar energy transmission	83%	17%
Solar energy reflection	8%	66%
Solar energy absorption (total)	9%	18%
Glare reduction	0%	80%
G value	0.86	0.172
Shading coefficient (SC)	0.86	0.2

Durability

Durability stated is for unprinted and untreated material correctly applied to an inert, vertical substrate subject to Mid-European weathering conditions. Some printing inks and drying or curing regimes may reduce the expected lifetime of the printed graphic. Please consult your ink manufacturer for guidance. Incorrect application methods, inadequate window cleaning and preparation and incompatible window treatments may reduce the expected lifetime of the applied material whether printed or unprinted, overlaminated or unlaminated. Mechanically sustained damage, chemical damage to printed, unprinted, laminated or unlaminated material may also reduce expected durability.

Please refer to the 'Cast Dual Color Warranty Bulletin' for details of warranted performance across all zones and applications.

Zone 1; 7 years (Northern Europe, Italy (North of Rome))
Zone 2; 6 years (Mediterranean area (without North Africa), South Africa, Australia South Region)
Zone 3; 5 years (Gulf Area, Africa, Australia North Region)

For more information on zones and a map of the regions, please visit **https://www.contravision.com/print-substrates/datasheets/**

Regulations

Some countries and regions have laws or regulations requiring minimum light passage that may limit or preclude the use of this product on vehicle windows. The user is responsible for determining and complying with all applicable standards.

Environmental

Contra Vision perforated window film is phlatate free and conforms to the latest REACH regulations - please refer to our website for further details. Contra Vision packaging is produced from recycled cardboard, with polypropylene end bungs and polyethylene wrapping. All of which are fully recyclable, subject to local recycling facilities. For further information on the environmental benefits of using Contra Vision products and the efforts we're making to improve the sustainability of our material, you can search for "sustainability" on our website.

Substrate

This product is not recommended for use on glass with coatings such as anti-reflective, self-cleaning and scratch-resistance, which may be damaged during film removal.

Other information

For further information visit the Contra Vision Technical Hub at **https://www.contravision.com/print-substrates/technical-hub**

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