Contra Vision® Cast White Dual Color

WBCAG20A

WBCAG20A is a Cast PVC white on black perforated self-adhesive vinyl with 20% transparency; and a semi-permanent, pressure-sensitive adhesive, featuring a Universal Grey 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 white during the day and when not back-lit, and takes on the color of the translucent acrylic when back-lit at night. This film is suitable for solvent, 'eco-solvent' latex inkjet printing, UV and screen-printing.

Face Film	Cast PVC White on Black
Face Film Weight	4.37oz/yard^2
Adhesive	Clear solvent acrylic, pressure-sensitive
Adhesive Weight	0.74oz/yard^2±0.15oz/yard^2
Liner	Part-perforated Universal Liner. Perforated silicone coated paper laminated with grey-printed paper backprinted with Contra Vision® branding.
Liner Weight	5.71oz/yard^2±0.29oz/yard^2
Removability	Not intended to be a removable product
Shrinkage	x direction ≦0.6%, y direction ≦0.6% FTM14
Service Temperature	-13.0°F to 149.0°F
Shelf Life	3 years under normal conditions at a temperature of 71.6°F and relative humidity of 50-55%

Print Types

- Solvent
- Eco-Solvent
- Latex or Resin
- UV
- Screenprinting

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 1/8" 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

Universal Liner construction, correctly printed, eliminates the "bridging" over the perforated holes that can occur with UV curing inkjet printers and Replacement Liner construction. After printing the ink must be thoroughly dry, including in the perforated holes 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.

4.72 mils
Film Thickness

20%
ø0.06 in
Transparency

50.0°F
min
Application temp

5 - 7
years
External durability
on static applications
See next page for more info

Peel Adhesion

Printed film on glass, typical value

43.83oz/in
20 mins

54.78oz/in
24 hours

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Fire rating

ASTM E84

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

Solar performance

Based on 1/8" 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 (outside) (North America, Canada & Patagonia)
Zone 2; 6 years (outside) (Argentina, Chile, Paraguay, Uruguay)
Zone 3; 5 years (outside) (Bolivia, Brazil, Caribbean Islands, Central America, Mexico, Peru)

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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