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| Product Name: <b>Performance™ White on Black</b> | Page: 1/2             |
| Product Reference: <b>WBPRG20C</b>               | Revision: 3 (CVNA)    |
|                                                  | Date: 21 October 2020 |
|                                                  | Author: NR            |

### Description

Performance™ WBPRG20C is a White on Black perforated self adhesive vinyl with 20% transparency; and a removable, pressure-sensitive adhesive, featuring a Replacement Liner with Grayliner™ technology. This film allows an image to be seen on the outside of a window while allowing viewing through from the inside. This promotional film features an unperforated paper liner and is intended for solvent, 'eco-solvent' and latex inkjet printing, and screenprinting.

| Typical Properties        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| PROPERTY                  | VALUE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Face film                 | Warm White on Black laminated polymeric calendered pvc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Film thickness            | 7.1 mils ± 0.4 mils (180µm ± 10 µm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Hole pattern              | 20% transparency; 0.06" (1.50mm) diameter holes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Adhesive                  | Transparent solvent polyacrylate<br>0.83 oz/yard <sup>2</sup> ±0.09 oz/yard <sup>2</sup> (28g/m <sup>2</sup> ±3g/m <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Liner                     | Unperforated Replacement Liner. White paper: grey, PE and silicone coated on top side, backprinted with Contra Vision® Performance™ branding and PE coated on the back side.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Liner weight              | 6.75 oz/yard <sup>2</sup> ±0.42 oz/yard <sup>2</sup> (160g/m <sup>2</sup> ±10g/m <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Application temperature   | Minimum: 39°F (4°C ) air and substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Peel adhesion<br>24 hours | 14.4 oz/In(4N/25mm)<br>Printed film on glass, typical value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Peel adhesion<br>1 month  | 18 oz/in (5N/25mm).<br>Printed film on glass, typical value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Removability              | Minimum 12 months clean removability without adhesive residue at 73°F to 77°F (23°C to 25°C)and RH of 50-60%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Durability                | <b>3 years</b><br>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 and UV-degradation to printed, unprinted, laminated or unlaminated material may also reduce expected durability. Typical application life is eighteen months. All perforated window films are especially vulnerable to damage along the edges and corners, which may lead to premature failure. |
| Shrinkage                 | x direction ≤0.6%, y direction ≤0.6% FTM14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Service temp              | -13°F to 149°F (-25°C to 65°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Shelf life                | <b>3 years</b><br>Under ordinary condition at temperature of 72°F (22°C) and relative humidity of 50-55%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Other info                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## 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.

## Substrate Recommendations

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.

## Application Recommendations

Apply the film using a dry application method. Surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. Final clean with soap and water. Rinse and dry glass after cleaning.

Not to be applied to fresh paint or ink, polycarbonate, rubber, plastic moldings and certain PVCs. In case of doubt, please test prior to final application.

This product is not recommended for use around a sharp angle where there is a limited area either side of the angle.

The film must not touch the rubber window molding. If two graphic panels meet side by side on a window, carefully trim the film so that the panels meet and form a butt seam. Do not overlap the panels.

Observe the minimum application temperature, and the graphics should not be washed 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.

## Contact Information

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