Guandong
DIGITAL MEDIA FOR EUROPE

WINDOW graphics

# *OPTIMAL PWF series*
# MONOMERIC OWV for public transport

| | ELEMENT | DESCRIPTION | SPECIFICATION |
|---|---|---|---|
| PHYSICAL PROPERTIES | Front layer | Type of material | Monomeric PVC film |
| | | Thickness | 175 ± 10 micron |
| | | Front color /back | Milk white/black |
| | | Surface tension | ≥ 30-32 dyne/ cm |
| | | Opacity | ›99% |
| | | Holes No. | Average 130 / sq inch (square inch = mm 25,4x25,4) |
| | | Hole Diameter | 1.6 mm |
| | | Distance Between Holes | 2.3 mm |
| | | Hole Space (transparency) | 45% |
| | Liner | White siliconated paper | 105 g in full surface (55 g after punching) - perforated paper liner |
| | | Transparent OPP | 33 gr hot laminated - additional liner |
| | | Total Weight | 89 g ± 5 g/m$^2$ |
| | | Release Force | FTM 3 N/25 mm 0,05 ≤ x ≤ 0,25 |
| | Additional liner | Peel off advice | It is strictly recommended peeling off the liner with extra caution. After printing, the manual cutting must be done with scissors or professional cutters with very sharp blades (no worn-out tools). In this way, you will avoid tearing the liner among the holes: that indeed could cause the flaking off of the paper liner. |

| | | TEST METHOD | UNIT | VALUE | TEST CONDITIONS |
|---|---|---|---|---|---|
| MECHANICAL AND THERMAL PROPERTIES | Layer | Tensile impact strength | DIN 53448 | > 650 | KJ/m² |
| | | Tensile strength | DIN 53455 | 45÷51 | N/mm² |
| | | Vicat point | DIN 53460 | 72±1 | °C |
| | | Brittle point | DIN 53377 | -30 | °C |
| | | Max. shrinkage | DIN 53377 | 0,8÷1,0 | % |
| | Glue | Type | Clear removable (solvent based acrylic glue) | | |
| | | Weight (g/m²) | 30 ± 2 | | |
| | | Adhesion Temperature | 15 °C~40 °C (thermal range) | | |
| | | Initial Adhesion-Ball Tack | ≥5 Steel Ball (GB4852-84/ CNS) | | |
| | | Peeling force | ≤ 5N/25 mm (GB2792-81/ CNS) | | |
| | | Holding Power | ≥ 800min (GB4854-84 CNS) | | |
| | | Expected lifetime | 2 years | | |
| | | Removable Durability | Max one year cleanly removable at the temperature of 18-25°C and RH of 50-60% (provided that the glass surface is very clean when sticking). | | |

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| Available size and code | 1,37 x 50 m - C-OP137-M |
| Storage period | 12 months under ordinary condition at the average temperature of 22 °C and relative humidity of 50-55%. |
| Applications | In normal avarage European climate, outside exposure: 2 years. One way vision media is used in digital and screen printing machines for signage display, shop window advertising, vehicle graphic, subway and building glass walls, including those used as emergency exits. |
| Compatibility of machines and inks | The media is suitable for all eco-solvent, UV curable and latex inks. Tests before printing are recommended. Inks should be the original inks from the printer manufacturers. The best printing temperature is 14°C, both for the both for the environment and for materials and ink. Note: When dealing with additional liner, it is recommended to take particular care, because the paper liner could break. The user is recommended to delaminate the first 2cm of the printed material in the whole width, then go on with the normal liner delaminating process of both paper liner and OPP liner. |
| Safety Caution | REACH - According to the Italian Decree-Law nbr. 133 issued on 14.09.2009 published on the Italian Gazzetta Ufficiale, we inform that the the product is compliant with REACH regulations (Registration Evaluation Authorization of CHemicals). For further information, please refer to the certified copy available of the analyses worked out on the substances taken into consideration by REACH. RoHS - Cadmium free. TYPE-APPROVAL FOR USE ON GLASS - For the relative type-approval certificate on vehicle windows, please consult the technical bulletin provided by Guandong Italia srl. |
| Notes | The products are manufactured with high quality raw materials, advanced technologies and specialized personnel. They are also guaranteed by scientific quality control systems. All products are guaranteed to be free of defects (both in materials and in production) at the time of shipment and to meet the application characteristics. In the event of product defects caused by the manufacturer, compensation will be limited to the amounts stated on the invoice. The above data are the latest results. These data may be changed without notice, provided that they lead to improved results. The supplier is not responsible for all consequences arising from improper use of materials and therefore users of such material will be required to perform the necessary tests to determine their suitability for the use they intend to pursue. |

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