

# Practical Information

no. 6, version 2008/49

## ORAJET® Window Graphics Film



ORAFOL® Europe GmbH

### 1 Preliminary remarks

The Window Graphics Films are suited for level and slightly curved glass surfaces such as car window panes. It is recommended to exclusively apply the Window Graphics Film together with ORAGUARD® protective films in a laminated form recommended by ORAFOL.

If you want to apply a Window Graphics Film on a car window, please also see our practical information for self-adhesive films for application on cars (Download: [www.orafol.de](http://www.orafol.de)).

ORAFOL® recommend to use only material with the same batch number for one graphical application. When different batch numbers are used the technician should make tests to find out possible differences in using the films and in the quality of the graphical application.

### 2 Preparation

To ensure a high-quality of application, the film should be applied at a temperature of at least +10°C in a dry and closed room. The glass substrate should be left in the room for several hours prior and after application in order to allow the receiving surface to adjust to the application conditions and to achieve the best possible adhesion result.

Glass surfaces to which the self-adhesive film will be applied must be thoroughly cleaned from grease or dust particles using industrial detergents or isopropanol. The solvents used should be mild and chemically pure in order not to damage rubber seals etc. Considering its highly varying quality, the use of spirit is not recommended.

We urgently recommend carrying out a test after cleaning and before application to check the final adhesion after 24 hours.

If the adhesion is uncommonly weak (e.g. when the vehicle or parts of it were pre-treated with substances using nanosealing/nanocoating or nanotechnology) cleaning with Aceton may help. Please make sure that neither window rubber seals nor painted surfaces or plastic parts get into contact with Aceton as Aceton may damage these parts.

#### **Auxiliary material**

- felt squeegee
- cutzit

- scissors
- ruler or measuring tape
- lint-free cloths
- hot gun

### 3 Drying up

Freshly printed films should be spread out and left to dry for 72 hours before lamination. Please see our practical information for digital printing materials (Download: [www.orafol.de](http://www.orafol.de)).

### 4 Important application advice

Application has to be made in a dry way.

Remove the protective paper gently from the film, not vice versa. Avoid tucks and creases on the selfadhesive film when removing the paper.

When forming a laminate from Window Graphics Film and ORAGUARD® laminate, the protective film should always rise at least 10 mm above the edges of the self-adhesive film. Is this not possible we recommend to apply a 10 to 15mm wide strip of **ORAGUARD®** Film with overlapping edges to the **ORAJET®/ORAGUARD®** laminate and the receiving surface. This will not only improve the adhesion of the edges to the surface but also effectively prevent any penetration of humidity and dust.

When using several pieces of adhesive film, avoid overlapping. The pieces should be applied next to each other, leaving a gap of not more than 1 to 2mm. A 10 to 15mm wide strip of **ORAGUARD®** should be used to seal this gap.

**Attention:** Variations in temperature may cause thermal stress for insulation glass which was partly or completely laminated or furnished.

#### Lamination of car glass:

ORAFOL recommends to laminate Window Graphics films only on car glasses which are not necessary for the sight of the driver. A rear window lamination requires a second wing mirror.

Many car glasses are not framed any more but are laminated on a frame. In this case we recommend to laminate the film only 10-15 mm up to the splice to guarantee the removal of the car glass despite the film in case of an emergency (e.g. traffic accident). In the case of pane frames a lamination of the frame and the pane rubber, respectively and a jamming of the film with the pane frame must be avoided.

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Application to the window frame may cause the self-adhesive film to become detached. Leave a distance of at least 10 to 15mm.

Users have to observe the corresponding laws for the lamination of car glass of their respective country. Please inform yourself!

### **5 Removability**

Please see the practical information for Plotter Films.

This information is based on our knowledge and experience. We have not explain all considering aspects of application. Specialised or occupational knowledge and competence of an professional sign maker are presupposed. Due to the diversity of potential influencing factors during application and use, we recommend to make own tests of our products by customers who wish to use the films for special applications. No legally binding warranty of certain qualities can be derived from our information.

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