

Application Instructions for Avery Dennison 7554 and 7555 Exterior Blackout Films

Introduction

Avery Dennison 7554 is a 150 micron fine grained polymeric PVC film which can be used in a wide variety of applications where a exterior blackout film is desired for functional or design reasons.

Avery Dennison 7555 is a 200 micron medium grained polymeric PVC Film, designed for application as an exterior blackout film (black film with a surface texture) that is used for optically enhance car design elements.

For more information about the products, please refer to the technical data sheet.

1. Surface preparation

It is recommended to clean the application surface with Avery Dennison Surface Cleaner. Many other commercially available cleaning/degreasing products may be suitable for cleaning and degreasing, but should be tested prior to use. In addition, the following factors should be included in the preparation before application:

- Car wax and polish residues must be completely removed.
- Paint surfaces must be completely dry, hardened and free of scratches. On most baked paints films can be applied immediately after cooling down. Air dried and car repair paints require at least one week to dry before films should be applied. Solvent residues in painted substrates may adversely affect film adhesion and might cause excessive shrinkage or blistering.
- Painted substrates for self-adhesive films should be dried according to the paint manufacturer's instructions to avoid solvent retention. Paint system components which are not compatible or do not adhere properly to each other may cause paint to be lifted when films have to be removed after use.
- Special attention should be given to critical areas as edges, corners, welding seams, rivets and the like. These should be thoroughly cleaned and dried before application.
- Wash your hands before starting the application, to avoid fingerprints on the adhesive.

2. Application

Avery Dennison 7554 and 7555 Films have been designed to enhance the car design elements. Conformability is limited because of the thickness and the nature of the material which should be taken into account when the applicator has to decide how the application is to be executed.

2.1. Recommended application method

Avery Dennison 7554 and 7555 Functional Black Out Film

- Apply dry and squeegee

Avery Dennison 7554 and 7555 Black Out Film can be applied to most car design elements, such as wheel arches, rocker panels, door edges, pillars etc. However, stretching of the films will reveal that these films do not so easily allow complete conformance to the surface irregularities.

Thus, if necessary, the film should be cut on difficult places to allow full coverage. The film can be applied with overlaps: these should at least cover 10 mm. It is advised to experiment with a small piece of material on the substrate in order to feel the nature of the film and the adhesive.

Once the material has been positioned gently start to squeegee the film. Use an Avery Dennison Squeegee Pro with felt cover and gradually increase the pressure in order to remove all the air from under the film. Overlap the squeegee strokes by about 50% to avoid remaining air entrapments. Re-positioning of the film is only possible in the stage of positioning and low squeegee pressure. If done in a later stage small marks or images might remain visible in the film surfaces. In order to further facilitate film stretching during application heat can be applied to the film. Avery Dennison 7554 and 7555 Black Out Films will need to be heated between 50° to 60°C in convex, concave and compound shaped surfaces to reach its optimal conformability level.

On-surface cutting of these films may be too critical: as the film caliper is high, one needs a lot of pressure which increases the risk to damage the paint.

Generally speaking, the parts to be applied should not be too large in size: this will allow easier application (it's NOT the same as a car wrap job!).

3. Removability

The general instructions of removal of self-adhesive films applied for 7554 and 7555 Exterior Blackout Film and are described in Technical Bulletin 1.2.

4. Brief summary

- use Avery Dennison Surface Cleaner
- use Avery Dennison Squeegee Pro
- no Application Tape needed
- Use dry application method
- pre-heat to facilitate film stretching at 50°- 60°C
- eliminate all air from under film
- re-treat entrapped air
- re-squeegee critical areas

5.0 Disclaimer

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