

OPTICSHIELD™ NANO

PAINT PROTECTION FILM

PRODUCT DATA SHEET

FILM FEATURES

Average values

- Thermo plastic PU
- Thickness (µm): **160**
- Tensile strength (MPa): **> 45**
- Elongation at break (%): **> 450**
- Shrinkage (mm):
after 168 hours at 70 °C (158 °F) **0.15**

LINER

- Silicone-coated PET liner

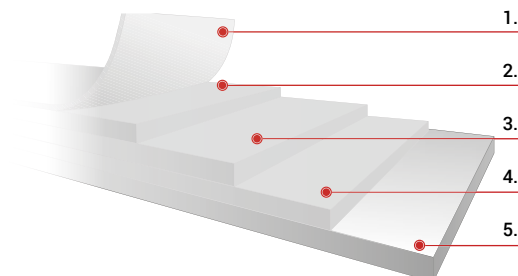
ADHESIVE FEATURES

Average values

- Peel on stainless steel
at 180° (N/m):
after 20 minutes of application **> 370**
after 72 hours of application **> 650**
- Initial tack (N/25 mm): **13**
- Release (N/25 mm): **0.2**

ADHESIVE

- Solvent-based, acrylic adhesive
- Immediate and permanent adhesion, best
after 24 hours of film application.



1. Protective film: **PET Cap sheet**
2. Nano top coating: **Self healing, hydrophobic**
3. Base film TPU: **Non-yellowing**
4. Adhesive: **Acryl**
5. Release liner: **PET**

NANO surface

Top coating layer is produced with NANO technology that ensures water repellency, high glossiness, and heals surface damage.

Clarity

Ultra clear material developed to maximize protection while retaining the original color of the car's surface. Anti-yellowing adhesive layer to defy discoloration.

Resistance

Nano surface effectively protects the surface from debris, chemicals, or other particles thanks to the nano coating layer.

Excellent glossiness

Polyester backing paper and top protective cap sheet are to enhance surface smoothness and shine. No orange peel effect. OpticShield™ corrects former surface scratches on the paint.

Easy installation

It is highly flexible material, easy to apply into curves and corrugations, with regard to its properties. These unique properties along with the optimal initial tuck eliminate installation errors and glue marks upon re-installation.

Anti-shock

Specially produced type of polymer, takes care of the elimination of all surface damage. This makes the material harder, stronger and more durable.

Finish

Available in gloss and matte finish.

Warranty

10-year on delamination, yellowing, bubbling and cracking.

Dimensions

Roll 1,83 x 10 m / 6 x 33 ft

WHY USE THE OPTICSHIELD™ INSTALLATION GEL?

Application gel was designed for paint protection film or other clear film. Leaves no traces under the foil. Its density makes it possible for the sheeting ideal spill area and thus creating more time for stress-free application. Can also be used for disguises and signmaking films.



www.optic-shield.com

USER'S INSTRUCTIONS

- Minimum application temperature recommended: +15 °C (+50 °F). Preferably apply at between +20 °C and +35 °C (+68 °F and +95 °F).

- Operating temperature range: from -40 °C to +100 °C (from -40 °F to 212 °F)

- Cut the film to the size of the part to be wrapped, allowing +10 cm (4 in).

The remaining film must be stored on its original core (do not cut the rolls into several lengths, do not repackage the product); the roll must be closed immediately and properly (tape or roll-collars) after use in order to preserve all its qualities.

- Wet application method

- Application on clean surfaces free of any traces of pollutants (dust, grease, wax, silicone...).

Pay particular attention to the cleaning of angles and edges of the target surfaces to enable the film to adhere well to the surface.

- In the case of already painted substrates, self-adhesive media must only be applied onto undamaged original paintwork. If the paint is not the original paintwork or/and is damaged, the application and the removal are at the installer's own judgement and own risk.

Because of the composition of clear films, an application on light coloured surfaces (white...) can result in a difference between the colour of the protected and the non-protected areas.

RECOMMENDATIONS FOR USE

- Conformable film developed for the protection of vehicle bodies, door sills, front and rear bumpers and painted rear view mirror cases, against chipping due to grit, insects.

- Excellent protection against vandalism (scratches)

- The improved surface sliding of the OpticShield™ Ultimate film enables you to reduce squeegee friction during application, but also to facilitate the film cleaning.

- To make application easier, WrapStyle™ can provide you with a line of accessories consisting of different types of squeegees, from very soft to very hard ones (plastic or felt).

STORAGE

- Shelf life (before application):

The shelf life of this film is 1 year if it is stored in its original packaging at a temperature ranging from +15 °C to +25 °C (+59 °F to +77 °F), with relative humidity of 50 %, in an horizontal position, in a dust-free environment.

DURABILITY

- The durability depends on the type of substrate, the surface preparation, exposure conditions and the frequency and method of cleaning.

It is estimated that, for example, south-facing exposure will divide the durability by two. The same applies to horizontal exposure. Furthermore, high temperatures (over 50 °C / 122 °F) or pollution noticeably reduce durability.

- Vertical exposure, central and northern European climate: up to 10 years (under normal road use conditions).



NOTES:

Because of the great variety of substrates and the growing number of new applications, the installer must check the suitability of the media for each application. The measuring methods for the standards quoted above served as basis for the development of our own measuring methods which are available on request. Please feel free to contact us to get the latest instructions in use.

All information released originates from laboratory measurements on a regular basis. However, it does not constitute a binding warranty. The seller is not held accountable for indirectly related damages beyond the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Updates of our specifications are automatically available on our website at www.optic-shield.com.