

## PRODUCT DATA SHEET

# GRAFIGUARD PAINT PROTECTION FILM

## REFERENCE GGSHG15 (150µm)

RELEASE 01.11.2020



### DESCRIPTION

Grafityp paint protection film GrafiGuard GGSHG15 is a transparent high gloss self healing thermoplastic polyurethane film with a permanent adhesive.

### COMPOSITION

#### FILM

150µm transparent high gloss self healing thermoplastic polyurethane film.

#### ADHESIVE

Permanent pressure-sensitive solvent-based acrylic adhesive.

#### RELEASE LINER

Double-sided PE-coated polyester (PET) carrier of 120 g/m<sup>2</sup>.

### APPLICATION

The paint protection film GrafiGuard GGSHG15 has been developed especially for protecting the paint of a vehicle against stone chips and scratches.

## → INDOOR/OUTDOOR USE

### PRODUCT ADVANTAGES

- Extremely flexible.
- Very good protection against stone chips and scratches.
- Excellent resistance to yellowing, staining, acid rain, etc...
- No water marks or cloudiness.
- 45% more gloss than an original coat of paint.
- Small scratches disappear with the help of heat.

### PRODUCT SPECIFICATIONS

Technical properties

#### RELATIVE HUMIDITY

50 ± 5%

#### TEMPERATURE

23 ± 2°C

- 1 **Thickness film (1)**  
Thickness film + adhesive + release liner + top coating
- 2 **Elongation at break (production length) (2)**  
Elongation at break (cross)
- 3 **Dimensional stability (3)**
- 4 **Gloss (minimum – measuring angle 20°)**
- 5 **Adhesion strength after 20 minutes (4)**  
Adhesion strength after 24 hours
- 6 **Quickstick (5)**
- 7 **Max. outdoor life span (unprinted) (6)**
- 8 **Temperature range during application**  
Temperature range at use
- 9 **Flammability**  
If applied on aluminium, glass, steel = self-extinguishing

(1) Average

(2) Maximum

(3) Average

(4) Average

(5) Central-European conditions

### TEST METHOD

### RESULT

Din53370	150µm 275µm
Din53455	> 400% > 400%
Finat 14	< 0,1mm
Din67530	> 80 GU (gloss units)
Finat 1	16 N/25mm 20 N/25mm
Finat 9	13 N
-	Up to 10 years
-	+20°C up to +30°C -15°C up to +110°C

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### STORAGE INSTRUCTIONS

All paint protection materials always have to be stored in their original packing and with the original protection flanges (preferably vertically).

In order to avoid any loss of quality, the paint protection print film should be stored in suitable conditions, i.e. at a temperature between 10/20°C and a relative humidity of 50%. Under these conditions paint protection materials can be stored for a period of two years.

### ADDITIONAL PROTECTIVE LAYER

The polyurethane paint protection films come with an additional protective layer, which should be removed before or after mounting it (depending on the application), in order to guarantee perfect transparency. If the film needs to be stretched, the additional protective layer should be removed before mounting the film, as this layer does not stretch at all – if the film needs no or hardly any stretching, the additional protective layer can be left on the film while mounting it, to protect the film during the mounting process.

### IMPORTANT

The information mentioned in this product data sheet is based upon tests that were executed by Grafityp, and that we consider to be reliable. The information always represents an average, a minimum or a maximum value, and should be considered as such. It is given only for your information, and does not give any guarantee. It is up to the end user to decide whether or not the product is suited for his particular application.

The expected outdoor life span refers to outdoor use under Central European conditions and to vertical application. Non-vertical application can reduce the life span up to 50%. The expected life span of our films is based upon professional application on a degreased and suitable background. Tropical conditions, or the use near chemical emission, may have a detrimental effect on the life span.

More information on this in our warranty certificates.

GrafiGuard films must only be applied to undamaged, original paintwork. Grafityp cannot be held responsible for any damage during application or removal, if the material is used on non-original or aftermarket paintwork.

Subject to modifications.

### APPLICATION

In order to apply the GrafiGuard polyurethane paint protection films, both the surface and the adhesive layer of the films need to be soaking wet. More detailed information about the right application methods and the tools to be used, can be found in the respective Grafityp manual.

The material may be stretched up to 110% during application.