PRODUCT DATA SHEET

PAINT PROTECTION FILM 150 MICRON

REFERENCE GRAFIGUARD GG15

Reviewed on 5th October 2016
PROVISIONAL SPECIFICATIONS

Description

Grafityp Paint Protection Film GrafiGuard GG15 is a transparent glossy thermoplastic polyurethane film, provided with a pressure-sensitive permanent acrylic glue. The glue is protected by a high-quality polyester carrier. This seamless paint protection film has especially been created for protecting vehicles against stone chips and scratches.

Composition

Film	:	150 micron thick transparent glossy thermoplastic polyurethane film with an excellent resistance against stone chips, scratches, UV-light, chemical products, humidity and dirt
Glue	:	solvent-based pressure-sensitive permanent acrylic glue
Backing paper	:	double-sided PE-coated polyester (PET) carrier of 110 gr/m²

Application

The Paint Protection film GrafiGuard GG15 has been developed especially for protecting the paint and the head lights of your vehicle against stone chips and scratches.

Product Specifications

Technical properties at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C.

		Test method	Result
1.	**Thickness[1]**		
	Thickness film	Din53370	150 micron
	Thickness film + glue + backing paper	Din53370	360 micron
2.	**Elongation at break[2]**		
	In production length direction	Din53455	n.a.
	In cross direction	Din53455	n.a.
3.	**Dimensional stability[3]**	Finat 14	< 0.20 mm
4.	**Degree of Gloss**		
	Minimum (measuring angle 20°)	Din67530	80 GU (gloss units)
5.	**Adhesion strength[4]**		
	After 20 minutes	Finat 1	17 N/25mm
	After 24 hours	Finat 1	20 N/25mm
6.	**Quickstick[5]**	Finat 9	17 N
7.	**Expected outdoor life span[6]**	-	Tests in progress Expected = 6 years
8.	**Temperature range**		
	At application	-	+10°C up to +30°C
	At use	-	-20°C up to +70°C
9.	**Colour back print**	-	Neutral
10.	**Flammability** If applied on aluminium, glass, steel = self-extinguishing		

Storage instructions

All Grafityp paint protection materials always need to be stored in their original packing and with the original protection flanges (and preferably stored vertically).
In order to avoid any loss of quality, the Grafityp Paint Protection material should also be stored in suitable conditions, that is at a temperature between 10 and 20°C, and a relative humidity of 50 %. Under these conditions, the Grafityp Paint Protection materials can be stored for a period of two years.

Remarks

In order to apply the Grafityp 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 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 a perfect transparancy. 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 only given 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.

1)
The thickness of the paint protection films may vary slightly. The indicated value is an average value, obtained from a series of measurements.
2)
The elongation at break of the paint protection films may vary slightly. The indicated value is a minimum value, obtained from a series of measurements.
3)
The dimensional stability is the shrinkage in mm. This value is measured by applying the film on aluminium (10x10cm), and placing it in a hot-air oven at 70°C for 48 hours (= Finat 14 Method, adjusted according to our own internally developed procedure). The indicated value is a maximum value, obtained from a series of measurements.
4)
The adhesion strength is measured on glass, and this after 20 minutes and after 24 hours. The film is removed again in an angle of 180° and at a speed of 300 mm/min. The indicated value is an average value, obtained from a series of measurements.
5)
The "Quickstick" is the direct adhesion strength, measured on glass. The indicated value is an average value, obtained from a series of measurements.
6)
The expected outdoor life span refers to outdoor use under Central European conditions and to vertical applications. 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.
For more detailed information we also refer to our general "Warranty Certificate" and to our "General Terms and Conditions of Sale and Delivery".