

CYS Colored PPF Jan. 01, 2025

## Technical data sheet

## Description

CYS Colored PPF is an innovative, multi-layer TPU film (thermoplastic polyurethane) with a colored layer. TPU is naturally characterized by exceptional tear resistance, high ageing resistance and impact strength.

With an impressive high gloss and intensive color depth, this film offers an incomparable look and at the same time a significantly improved protective effect for the paint compared to PVC. The matt versions are characterized in particular by their comparatively insensitive surface.

CYS Colored PPF also has a self-healing, only slightly hydrophobic coating, which also allows the film edges to overlap, so that "film-on-film" bonding is possible without any problems.

Developed in a three-year process by experienced practitioners, CYS Colored PPF is specially designed for full vehicle wrapping. In the glossy versions, air channel structures in the adhesive were deliberately omitted in order to achieve maximum brilliance. However, these films can be applied well with application fluid. The matt versions have air channels and can be applied dry. Detailed information can be found in the care and processing instructions.

CYS Colored PPF is available in over 310 colors and designs; approx. 60 colors are available directly from stock in Germany.



## **Product structure:**

Protective film, to be removed

Coating, self-healing

TPU, top layer

Color layer

TPU, bottom layer

Pressure-activated adhesive

Release Liner

## Please note!

Before use, the user should check the suitability of the product for the intended use. The user assumes all associated risks and liabilities.

All data was collected in accordance with SGS certification test standards and methods.

SGS is an international institute for product testing and certification, results may vary if other test standards are used. The technical information provided relates to representative products and should not be used for specification purposes.





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Film thickness	175-190 μ, depending on design/color
Without cover liner and protective	
film	
Protective film	PCL , to be removed before bonding
Cover liner	Matt PET 90μ
Gloss	> 90 GU (gloss unit)
Glossy versions only: Reference = 100 GU (high-gloss polished black glass)	
Adhesive	25 μ solvent polyacrylate, self-crosslinking, pressure-activated
	Matt design with air channel structure
Adhesive strength	Initial adhesion: 6N/25mm (recommended processing temperature = 18 - 23 °C)
	15 minutes: 13.7N/25mm
	24 hours: 17.9N/25mm
Sample on Mylar (PET)	
Dimensional stability	0,1% shrinkage
Sample on steel plate, (23±2) °C, (5	
Tear resistance	23,7 Mpa until breakage
% Elongation to break	280% (Coating crack 190-260%)
SGS/Method: GB/T 1040.3-2006	
Low temperature	No changes ✓
-20°C/24 hours	THE CHAINES
Acid resistance	No changes ✓
	ersion method, room temperature, 20min
Alkali resistance	No changes ✓
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	nersion method, room temperature, 20min
Humidity & heat	No changes ✓
Constant 85°C /85% relative humid	•
Abrasion resistance	No changes ✓
SGS/Method: FORD FLTM BN 108-0	·
Neutral salt spray test	No changes ✓
SGS/ Method: NSS, exposure time 48 hours	
Solvent resistance	No changes ✓
Sample on steel plate, immersion method, room temperature, 30 min each	
	nol (AR) + 100 ml methanol (AR), mixture
b) Gasoline	
c) 100 % synthetic engine oil SM 5W-40	
Light fastness / weathering	300 hours, grey scale 4-5, barely perceptible changes
	2800 hours, grey scale 4-5, barely perceptible changes
	2900 hours, grey scale 4, barely perceptible changes
Xenon-arc Exposure: ISO 4892-2:20	13/Amd.1:2021, Cycle 1 & ISO 105-A02:1993/Cor.2:2005
Shelf life	2 years
Recommended: 20±2°C room temp	erature, relative humidity 40-60%, original packaging, horizontal
Durability expectation*	up to 10 years
	normal environmental influences, no significant differences betweenvertical and
horizontal bonding	
This information is a guideline, but	not a guarantee. The shelf lives that can actually be achieved depend on a number of
individual factors, such as e.g. care,	ambient conditions and preparation of the substrate to be bonded.
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Slight changes due to ageing are possible during the shelf life expectancy period. You can find detailed information on this topic in our processing instructions.