



# Paint Protection Film

## TECHNICAL DATA SHEET

ITEM NO.: XPPF-G06

Gloss Black

SIZE: 60''×50'

### INFORMATION

Experience our Paint Protection Film (PPF), a superior solution designed to protect and preserve your vehicle's finish. This cutting-edge film combines advanced technology with exceptional clarity, ensuring that your car maintains its original beauty while being shielded from scratches, chips, and environmental elements. Engineered for durability, our PPF provides a robust barrier against harmful UV rays and road debris, giving you peace of mind as you drive. Transform your vehicle's protection with confidence and style!

### TOP COATING SURFACE PROPERTIES

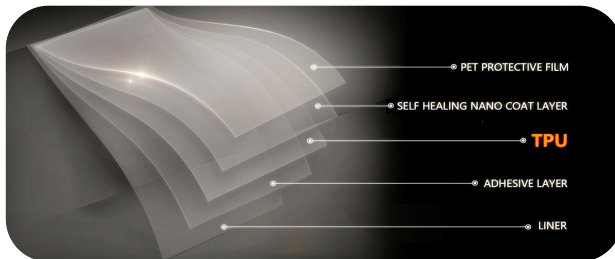
The hydrophobic topcoat and scratch-healing technology make the film simple to maintain and resistant to wear and tear from washing abrasion. This ensures the film retains its glossy appearance for ten times longer than traditional vinyl wraps.

- ★ Self-healing
- ★ Non-Yellowing
- ★ Anti-scratch&corrosion
- ★ Hydrophobic
- ★ Edge Seal Technology
- ★ Improved Gloss

### FILM MATERIAL

This film is a polycaprolactone based, aliphatic TPU (thermal polyurethane) film. It is a low gel, non-yellowing, UV-resistant film used in a wide range of outdoor exposed vehicle protection applications. The Elastic TPU design not only delivers a stunning appearance but also offers four times the durability and protection against rock chips, deep scratches, and chemical damage compared to the original painted surface. Preserve the pristine condition of your original paint for an extended period!

### FILM STRUCTURE



STRUCTURE	DETAILS
Film Thickness	7.5mil(189um)
PET Protective Film	50um
Self healing Nano Coat Layer	8um
TPU	150um
Adhesive Layer	34um
Release Film	75um

### PHYSICAL PROPERTIES

Properties	Test Results	Testing Conditions
Elongation at break	447%	Test rate: 25 mm/min (300 mm/min)
Tensile Strength	18.2MPA	Test rate: 25 mm/min (300 mm/min)
Shrinkage	0.30%	After accelerated weathering
Peel Adhesion	37.9gf	24hr in Room Temperature
Initial Adhesive	873gf	24hr in Room Temperature
24h, 180° Peel	1560gf	24hr in Room Temperature
Gloss	94°	60 Degree
Hydrophobic	Superb	Spray water 60min
Self-Healing Type	Heat Self Healing	10 times with steel brush, self healing at 50-70°C for 1 min
Stain resistance	Good	Immerse for 30min with corrosive liquid. check after 24hr

#### Aging Test

UV TESTING	No Detrimental Effect	1800 cycles 60 minutes test / 0.55w/m2/nm / 340nm
Natural Weathering	No Detrimental Effect	3yr natural China Weather
Humidity With Heat	No Detrimental Effect	200hr / 0-60°C / humidity: 50%-90%RH
Heat Aging	No Detrimental Effect	3months/70°C

### Storage Condition

Temperature	15-25°C
Humidity	40-60%

### Warranty Details

Warranty Periods	3 Years
Service life	5 Years

WARRANTY-quality guarantee for our guests using our production in normal environment and within warranty duration, the official warranty is available if items have serious yellowing, split, glue delamination and wrinkles problems etc. The common damage situations are not under the assurance such as abrasion, stone hitting, traffic accident, crash and any other unnatural problems.

CarlasGlobal

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