



#### CHARACTERISTICS

- Ultra gloss finish
- Super hydrophobic
- Self-healing
- Anti-yellowing
- Anti-contamination

#### APPLICATIONS

For automotive use  
(other uses may apply).

#### SHELF LIFE

Paint protection films should be installed within one year from the date of purchase.

#### APPLICATION AREAS

Flat surfaces, simple curves,  
and compound curves

#### APPLICATION METHOD

Paint protection films are to be professionally installed by trained, authorized installers.

#### LAYER DESCRIPTIONS

##### Cap Sheet

Protects film before use

##### TPU

High-clarity and impact-resistant

##### Self-Healing Top Coat

Hydrophobic and scratch-resistant

##### Pressure-Sensitive Adhesive (PSA)

For easy installation

##### Release Liner

Protects film before use

#### LAYER THICKNESS

220 ±10µm

## RHINOPPF® Paint Protection Film

# Technical Data Sheet

### PRODUCT DESCRIPTION

Our flagship product, PLUS, SHIELD, ULTRASHIELD, SUPER ULTRASHIELD is a premium paint protection film offering top-notch performance, durability, and reliability.

PLUS, SHIELD, ULTRASHIELD, SUPER ULTRASHIELD nano-glass top coat is bonded to the film at a molecular level during the manufacturing process, virtually eliminating the need for waxes or after-market top coatings. Hydrophobic and highly damage-resistant, PLUS, SHIELD, ULTRASHIELD, SUPER ULTRASHIELD also boasts super self-healing properties and puncture resistance, effectively shielding against surface-level nicks and scratches. Combined with UV-resistant, anti-yellowing adhesives and an ultra gloss finish, our technology results in beautiful, long-lasting protection wherever you go.

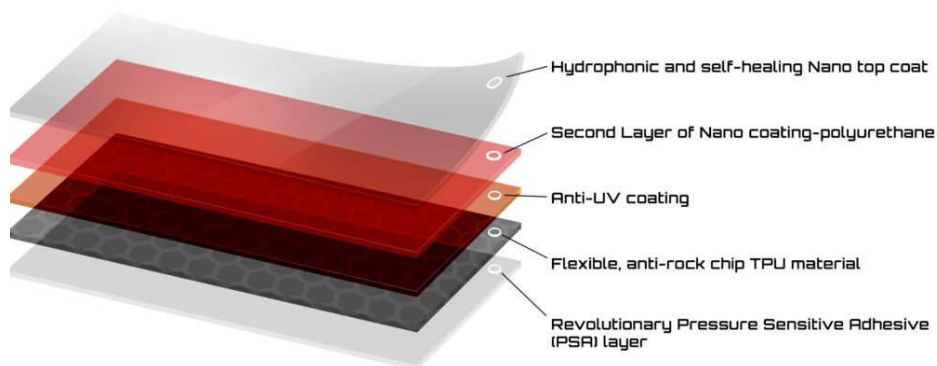
### STORAGE INSTRUCTIONS

Recommended Temperature Range: 20±2 °C (68±2 °F)

Recommended Relative Humidity: 40-60%

Avoid extreme temperature ranges in storage. Store the product in its original packaging in a horizontal orientation, away from direct sunlight. Do not place heavy objects on top of the packaging, as this may damage the product.

### STRUCTURE



### PROPERTIES

<b>Gloss</b>	>95 Gu
<b>Self-Healing</b>	Super
<b>Coating Layer Crack</b>	>55 mm
<b>Adhesion (30 min.)</b>	>1300
<b>Adhesion (24 hrs)</b>	>1700
<b>Hydrophobicity</b>	Super hydrophobic
<b>Weathering</b>	No change 6500 W Xenon Arc Irradiance: 0.51 W/m² (340 nm), 65° C Humidity: 50%, R.H. 1000 hrs



## TECHNICAL SPECIFICATIONS

PRODUCT	PLUS	SHIELD	ULTRASHIELD	SUPER ULTRASHIELD	RHINO MATTE
MODEL	PLUS	SHIELD	ULTRASHIELD	SUPER ULTRASHIELD	RHINO MATTE
PRODUCT TYPE	TPU	TPU	TPU	TPU	TPU
SURFACE TREATMENT	CLEAR & GLOSSY	CLEAR & GLOSSY	CLEAR & GLOSSY	CLEAR & SUPER GLOSSY	MATTE FINISH
TPU THICKNESS	200 MICRONS	220 MICRONS	228 MICRONS	237 MICRONS	220 MICRONS
COATING	12 UM LUBRIZOL SMM301	12 UM LUBRIZOL SMM301	12 UM LUBRIZOL SMM301	12 UM LUBRIZOL SMM301	12 UM LUBRIZOL SMM301
SELF HEALING BY HEAT	YES	YES	YES	YES	YES
ANTI CORROSION	YES	YES	YES	YES	YES
MASKING SHEET	2 MIL	2 MIL	2 MIL	2 MIL	2 MIL
URETHANE	5.5 MIL	5.5 MIL	5.5 MIL	5.5 MIL	5.5 MIL
NANO COATING	0.5 MIL	0.5 MIL	0.5 MIL	0.5 MIL	0.5 MIL
GLUE THICKNESS	1.5 MIL	1.5 MIL	1.5 MIL	1.5 MIL	1.5 MIL
RELEASE LINER	3 MIL	3 MIL	3 MIL	3 MIL	3 MIL
ANTI DIRT	YES	YES	YES	YES	YES
PEEL STRENGTH	75 N/CM	75 N/CM	75 N/CM	75 N/CM	75 N/CM
WARRANTY RANGE	YELLOWING, STAINING, CRACKING, BLISTERING, DELAMINATING	YELLOWING, STAINING, CRACKING, BLISTERING, DELAMINATING	YELLOWING, STAINING, CRACKING, BLISTERING, DELAMINATING	YELLOWING, STAINING, CRACKING, BLISTERING, DELAMINATING	YELLOWING, STAINING, CRACKING, BLISTERING, DELAMINATING
WARRANTY	5YEARS	8YEARS	12YEARS	LIFETIME WARRANTY	5YEARS

PROTECT YOUR VEHICLE FROM DAILY RISK

  
**SCRATCHES &  
RUST**

  
**WATER  
SPOTS**

  
**ROAD  
GRIME**

  
**BIRD  
DROPPINGS**

  
**UV RAYS  
PROTECTION**



## Technical Data Sheet

### PACKAGE DIMENSIONS

#### Box Size

72": 1830 x 185 x 180 (mm)  
 60": 1630 x 185 x 180 (mm)  
 48": 1330 x 185 x 180 (mm)  
 36": 1030 x 185 x 180 (mm)  
 30": 870 x 185 x 180 (mm)  
 24": 730 x 185 x 180 (mm)  
 18": 570 x 185 x 180 (mm)



### RHINO AUTO FILMS



### ROLL CONFIGURATIONS

<b>72 in. x 33 ft</b>	(1830 mm x 10 m)
<b>60 in. x 100 ft</b>	(1524 mm x 30 m)
<b>60 in. x 50 ft</b>	(1524 mm x 15 m)
<b>48 in. x 100 ft</b>	(1220 mm x 30 m)
<b>36 in. x 100 ft</b>	(914 mm x 30 m)
<b>30 in. x 100 ft</b>	(762 mm x 30 m)
<b>24 in. x 100 ft</b>	(610 mm x 30 m)
<b>18 in. x 100 ft</b>	(457 mm x 30 m)

### NOTES

All data have been collected by RHINO through internal testing standards and methods. Results may differ when using other testing standards.

Reported values are expected properties and should not be used for product certification.

The provided technical information consists of representative product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

All concerns regarding warranty and liability are subject to the terms and conditions of sale. When applicable, these terms and conditions are governed by prevailing laws.

Prior to application, the user must determine the suitability of the product for its intended use and assumes all risk and liability therein.

### WARRANTY

Only applicable in the case of proper handling and use. Terms and conditions apply.

