EXOFILM

TECHNICAL DATA SHEET

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PAINT PROTECTION FILM

MATTE BLACK



Deep, non-reflective matte black finish

Advanced protection with a bold, aggressive and stealthy appearance.

13-16	7 yr	Heat	480%	7.5 mil
GLOSS matte	WARRANTY coverage	SELF-HEALING type	ELONGATION at break	TPU thickness

KEY FEATURES

Non-reflective matte black

Gloss 13-16 (Matte), 20-25 (Satin) for a deep, smooth black finish.

Aliphatic TPU construction

7.5 mil TPU with 44 MPa tensile strength shields paint from stone chips and road debris.

Heat-activated self-healing

Minor surface marks disappear when exposed to heat.

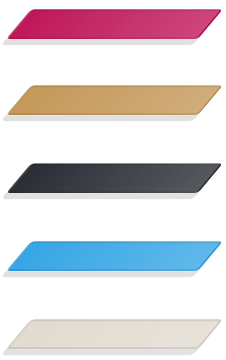
Hydrophobic ExoCoat top-coat

Repels water, dirt and contaminants for easier maintenance.

Stainguard protection

Resists staining and yellowing; no detrimental effect from common chemicals.

CONSTRUCTION



1. **ExoCoat top-coat** — Hydrophobic self-healing top coat
2. **Stainguard layer** — Anti-staining, anti-yellowing layer
3. **Aliphatic TPU** — 7.5mil TPU film
4. **Pressure sensitive adhesive** — Bonds the film to the paint
5. **Release liner** — Polyester, removed before install

Exploded view, not to scale.

MATERIAL & DURABILITY

Warranty **7 Years**	Color **Matte Black**	Top layer **ExoCoat top-coat**
Self-healing type **Heat Healing**	Liner **Polyester**	Hydrophobic **Yes**

MATTE BLACK | COLOR PAINT PROTECTION FILM

Test Results & Performance Data

SURFACE PERFORMANCE

PROPERTY	RESULT	TEST CONDITION
Stain resistance	**No detrimental effect**	Acetone, Gasoline, Armor All, Diesel, Motor Oil, Soap & Water, 100% Isopropyl Alcohol Immerse for 35 mins, check after 24 h for change
Anti-aging	**ΔE<2, >85% gloss retention**	Heat Aging, Xenon Weathering, EMMAQUA Aging Exposure to UV, IR and humidity reflecting 3 years of real life use
UV test	**6000 Hours Pass**	UV exposure
Gloss	**13-16 (Matte), 20-25 (Satin)**	Typical value

ELONGATION AT BREAK

typical tensile test

TPU film **480%**

Track end = 500% elongation. Tensile strength 44 MPa.

ADHESION BUILD

20 minutes **1270 gf/inch**

24 hours **1660 gf/inch**

Peel adhesion increases 31% from 20 minutes to 24 hours. Track end = 2000 gf/inch.

MECHANICAL PROPERTIES

TPU thickness	**7.5mil**
Tensile strength	**44 MPa**
Elongation at break	**480%**
Temperature resistance	**−40°C ~ 120°C**
Application temperature	**55–90°F (13–32°C)**

ABOUT MATTE BLACK

Matte Black Paint Protection Film (PPF) is a specialized automotive product that combines advanced protection with a bold, high-end aesthetic. Designed to give vehicles a striking, dark matte finish, this film enhances the overall look by transforming the surface into a deep, smooth, non-reflective black finish. The rich matte black texture offers an aggressive, stealthy appearance that appeals to those seeking a unique and powerful visual impact.

- **Stain resistance** — No detrimental effect
- **Anti-aging** — ΔE<2, >85% gloss retention
- **UV test** — 6000 Hours Pass
- **Application** — Wet only

GLOSS

13-16 (Matte) 20-25 (SATIN)

WARRANTY

7 Years Subject to the published warranty terms.

CONTACT

EXOFILM
5900 Balcones Drive, Suite 14684
Austin, TX 78731, U.S.A.
+1 (667) 222-6567 | www.exofilm.com

NOTES

All values are typical, obtained under laboratory test conditions, and are not specifications. Actual performance varies with surface preparation, installation, environmental exposure and maintenance. Installation by trained professionals is recommended. EXOFILM may revise this data sheet without notice.