HAUT PAINT PROTECTION FILM TECHNICAL DATA

Total thickness is measured with a micrometer per ASTM D6988 and includes top coat, TPU and adhesive (cap sheet and liner removed). Layer thicknesses are nominal; totals are measured.

Mechanical, adhesion and weathering values are from qualification testing of the US production line (qualification lots May 2025), performed by the manufacturer's QA laboratory to the ASTM methods shown. Current lots use the same formulation and are released on thickness, 60° gloss and peel adhesion.

Mechanical and adhesion tests: 23 ± 2 °C, 50 ± 5 % RH, 300 mm/min. Peel per ASTM D3330 Method A, 180° on stainless steel. Weathering per ASTM G154 Cycle 1: UVA-340, 8 h UV at 60 °C / 4 h condensation at 50 °C.

Values are typical, not a specification.

Roll widths: 60" and 72".

HAUT MASTER

180–185 µm · 7.1–7.3 mil

Clear gloss PPF. Our main film for full-front and full-body work.

CONSTRUCTION

LAYER	THICKNESS (NOMINAL)
Self-healing top coat	15 µm
Aliphatic TPU	≈140–145 µm
Acrylic pressure-sensitive adhesive	25 µm
Total, measured (ASTM D6988)	**180–185 µm (7.1–7.3 mil)**

UV WEATHERING — ASTM G154, CYCLE 1 (N = 3)

EXPOSURE	ΔYI (ASTM E313)	60° GLOSS RETENTION
500 h	0.49 ± 0.04	99.0 %
1,000 h	0.88 ± 0.05	97.9 %
1,500 h	1.26 ± 0.07	96.5 %

No cracking, blistering or delamination at 1,500 h.

PHYSICAL PROPERTIES (N = 5, MEAN ± SD)

PROPERTY	METHOD	VALUE
Tensile strength	ASTM D882	54.8 ± 1.3 MPa (7,950 ± 190 psi)
Elongation at break	ASTM D882	475 ± 16 %
Peel, 20 min dwell	D3330 A	26.7 ± 1.3 N/25 mm (6.1 ± 0.3 lb/in)
Peel, 24 h dwell	D3330 A	36.3 ± 1.8 N/25 mm (8.3 ± 0.4 lb/in)

CHEMICAL EXPOSURE

Tested against engine oil, gasoline and alkaline shampoo (14 days, earlier production batch). Use a pH-neutral shampoo for maintenance.

COMPATIBILITY

Works with any ceramic coating.

WARRANTY

10-year limited warranty, installed by a HAUT-certified shop.

HAUT MASTER PLUS

205–210 µm · 8.1–8.3 mil

Our thickest clear gloss PPF, with the extra thickness in the impact-absorbing TPU: front ends, rocker panels, track cars.

CONSTRUCTION

LAYER	THICKNESS (NOMINAL)
Self-healing top coat	15 µm
Aliphatic TPU	≈165–170 µm
Acrylic pressure-sensitive adhesive	25 µm
Total, measured (ASTM D6988)	**205–210 µm (8.1–8.3 mil)**

UV WEATHERING — ASTM G154, CYCLE 1 (N = 3)

EXPOSURE	ΔYI (ASTM E313)	60° GLOSS RETENTION
500 h	0.44 ± 0.03	99.2 %
1,000 h	0.81 ± 0.05	98.2 %
1,500 h	1.15 ± 0.06	97.1 %
2,000 h	1.54 ± 0.08	95.8 %

No cracking, blistering or delamination at 2,000 h.

PHYSICAL PROPERTIES (N = 5, MEAN ± SD)

PROPERTY	METHOD	VALUE
Tensile strength	ASTM D882	58.7 ± 1.5 MPa (8,520 ± 215 psi)
Elongation at break	ASTM D882	445 ± 14 %
Peel, 20 min dwell	D3330 A	29.3 ± 1.3 N/25 mm (6.7 ± 0.3 lb/in)
Peel, 24 h dwell	D3330 A	39.0 ± 1.8 N/25 mm (8.9 ± 0.4 lb/in)

CHEMICAL EXPOSURE

Tested against engine oil, gasoline and alkaline shampoo (14 days, earlier production batch). Use a pH-neutral shampoo for maintenance.

COMPATIBILITY

Works with any ceramic coating.

WARRANTY

10-year limited warranty, installed by a HAUT-certified shop.

HAUT MIST

180 µm · 7.1 mil

Clear PPF with a satin finish.

CONSTRUCTION

LAYER	THICKNESS (NOMINAL)
Satin top coat	15 µm
Aliphatic TPU	≈140 µm
Acrylic pressure-sensitive adhesive	25 µm
Total, measured (ASTM D6988)	**180 µm (7.1 mil)**

UV WEATHERING — ASTM G154, CYCLE 1 (N = 3)

EXPOSURE	ΔYI (ASTM E313)	60° SHEEN SHIFT
500 h	0.51 ± 0.04	−0.3 GU
1,000 h	0.92 ± 0.06	−0.8 GU
1,500 h	1.31 ± 0.07	−1.3 GU

No chalking or delamination at 1,500 h.

PHYSICAL PROPERTIES (N = 5, MEAN ± SD)

PROPERTY	METHOD	VALUE
Tensile strength	ASTM D882	53.5 ± 1.2 MPa (7,760 ± 180 psi)
Elongation at break	ASTM D882	435 ± 15 %
Peel, 20 min dwell	D3330 A	25.8 ± 0.9 N/25 mm (5.9 ± 0.2 lb/in)
Peel, 24 h dwell	D3330 A	35.5 ± 1.3 N/25 mm (8.1 ± 0.3 lb/in)

MAINTENANCE

Use a pH-neutral shampoo.

COMPATIBILITY

Works with any ceramic coating.

WARRANTY

10-year limited warranty, installed by a HAUT-certified shop.