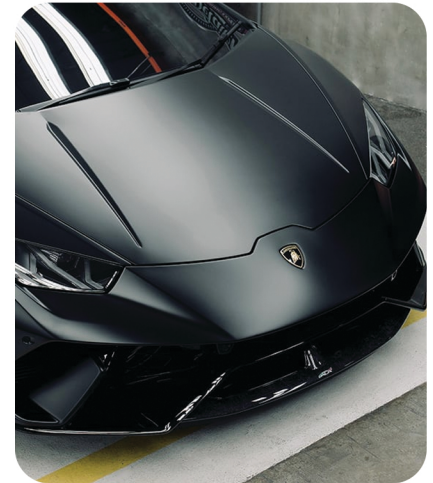


PRODUCT DESCRIPTION



MATTE BLACK™ is a premium paint protection film offering a smooth satin-matte finish with durable protection against scratches, chips, and UV damage. Made from high-quality aliphatic TPU, it blends refined aesthetics with long-lasting performance for full wraps or accent applications. Its self-healing coating restores minor marks with heat, while the strong adhesive ensures secure bonding and clear removal. **MATTE BLACK™** delivers a bold, elegant look trusted by professionals for superior style and protection.

PRODUCT CONSTRUCTION



LAYER COMPONENT	DESCRIPTION / THICKNESS
Top Coating	10 µm – Matte self-healing protective layer
TPU Base Layer	150 µm – Optical-grade aliphatic polyurethane
Adhesive Layer	25 µm – High-tack acrylic adhesive
Protective Film	50 µm – Matte finish protection layer
Release Liner	85 µm – PET release film
Total Thickness	195 µm (nominal)

GENERAL CHARACTERISTICS

PROPERTIES	TEST VALUE	TEST METHOD
TPU Thickness	141 µm	Thickness Tester
Coating Thickness	10 µm	Thickness Tester
Adhesive Thickness	25 µm	Thickness Tester
Release Film Thickness	85 µm	Thickness Tester
Protective Film Thickness	50 µm	Thickness Tester
Total Product Thickness	195 µm	Thickness Tester
Anti-Yellowing	B value ≤ 5	GB/T 16422.3-2014 QUV5000 hours
Xenon Accelerated Aging	No change	GB/T 32088-2015 2000 hours
Elongation at Break (Coating)	>170%	ASTM D882
Elongation at Break (Finished Product)	>375.1%	ASTM D882
Tensile Strength	29.2 Mpa	ASTM D638-2014
Tear Strength	69.7 KN/m	ASTM D624-2000
Puncture Resistance	15.5 N	GB/T 10004
Stone Impact Resistance	Pass	SAE J400
Initial Viscosity	>1616 gf/inch	GB/T 4852
Viscosity Retention	>1931 gf/inch	GB/T 4851
Surface Gloss	19.2 GU	3NH Gloss Tester (30°)
Scratch Repair	Normal temperature repair	Brush 10 times, 50°C hot water for 30°
Coating Adhesion	Level 5	ASTM D3359
Water Drop Angle	105°	Water Drop Goniometer
Water Resistance	No change	GB/T 22886-2008 (50°C, 200 hours)
High Temperature Resistance	No change	GB/T 7141-2008 (80°C, 1000 hours)
Hydrolysis Resistance	No change	GB/T 4671-2014 (40°C, 400 hours)
Acid & Alkali Resistance	No change	GB/T 11547-2008 (Soak 24 hours)
Chemical & Oil Resistance	No change	Internal Test (Spray 60 seconds)