

## PRODUCT DESCRIPTION



ULTIMATE GLOSSY™ is a premium TPU paint protection film offering deep gloss, high clarity, and lasting durability. It self-heals minor scratches under heat and protects paint from chips, stains, and UV damage. With strong adhesion

## PRODUCT CONSTRUCTION

LAYER COMPONENT	DESCRIPTION / THICKNESS
Top Coating	10 µm – Self-healing, high-gloss protective layer
TPU Base Layer	150 µm – Optical-grade aliphatic polyurethane film
Adhesive Layer	25 µm – High-performance acrylic adhesive
Protective Film	50 µm – Surface stability and strength layer
Release Liner	85 µm – PET film for easy installation and release
Total Thickness	195 µm (nominal)



## GENERAL CHARACTERISTICS

PROPERTIES	TEST VALUE	TEST METHOD
TPU Thickness	150 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	Relative <5	GB/T 16422.3-2014 OUV5000 hour
Xenon Accelerated Aging	No Change	GB/T 32088-2015 2000 hours
Elongation at Break (Coating)	>115%	ASTM D882
Elongation at Break (Finished Product)	>228.6%	ASTM D882
Tensile Strength	24.9Mpa	ASTM D638-2014
Tear Strength	78.5 KN/m	ASTM D624-2000
Puncture Resistance	15.5 N	GB/T 10004
Stone Impact Resistance	Pass	SAE J400
Initial Viscosity	>1645 gf/inch	GB/T 4852
Viscosity Retention	>1900 gf/inch	GB/T 4851
Surface Gloss	92.9 GI	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. 200h)
High Temperature Resistance	No change	GB/T 7141-2008 (80°C. 1000h)
Hydrolysis Resistance	No change	GB/T 4671-2014 (40°C. 400h)
Acid & Alkali Resistance	No change	GB/T 11547-2008 (Soak 24h)
Chemical & Oil Resistance	No change	Internal Test (Spray 60 seconds)