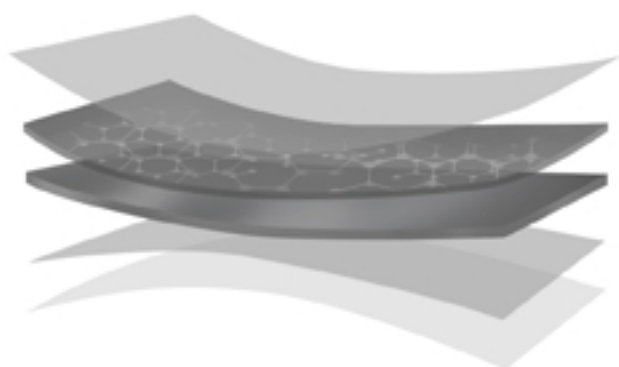


INFORMATION

Elevate your offerings with MagiRing's Performance X series, the ultimate solution in paint protection film tailored for the luxury automotive market. Designed for those who demand nothing but the best, Performance X provides unparalleled defense against the harshest climates and environmental challenges. Whether it's extreme heat, frigid temperatures, or abrasive elements, this advanced film ensures that the exquisite finish of high-end vehicles remains pristine.

Crafted with cutting-edge technology, Performance X boasts a high-gloss finish that enhances the vehicle's aesthetics while delivering superior protection. The film's durability is matched by its flexibility, allowing for seamless application on even the most intricate curves and contours. MagiRing's Performance X series is not just a product; it's a commitment to excellence. For the X series, we have four (150/180/200/260um) thickness to choose from.

PRODUCT CONSTRUCTION



SURFACE PROTECTIVE FILM

SELF-HEALING COATING
100% selfrepairing

TPU THIN FILM (BASE MATERIAL)
150/180/200/260 μm
Japan Mitsui TPU

VISCOSE LAYER (GLUE)
Ashland Self-adhesive Glue

RELEASE LINER

GENERAL CHARACTERISTICS

| ESSENTIAL ATTRIBUTE | MEASURING METHOD | SPECIFICATION | UNIT | INSPECTION RESULT |
|--|---|---------------------------|---------------|---------------------------|
| Colour | Visual inspection | Colorless and transparent | / | Colorless and transparent |
| Thickness of the upper PET protective film | GB/T 6672-2001 | 50 \pm 2 | μm | 52 |
| Thickness of the lower PET protective film | | 85 \pm 3 | μm | 87 |
| Total thickness of finished film | | 192/217/243/295 \pm 5% | μm | 191/221/246/298 |
| Glossiness | OC/T1171-2022 | \geq 140 | GU | \geq 140 |
| Fog degree | GB/T 2410-2008 | \leq 0.8 | / | \leq 0.8 |
| Visible transmittance | GB/7258-2017-11.5.7 | \geq 80 | / | \geq 90 |
| Uv blocking | LS182 DETECTOR | >90 | / | >90 |
| QUV Aging resistance | ASTM G154-16 LOOP 1 | $\Delta E^*ab < 2$ | / | <2 |
| Thermal self-healing | Brass brush 10 times, 50-70°C hot water for 1 minute. | 100% selfrepairing | / | 100% selfrepairing |
| Acrylic layer peeling force/20min | GB/T 2792 | >600 | gf/inch | >1100 |
| Acrylic layer peeling force/24h | | >1000 | gf/inch | >1400 |
| Tearing strength | GB/T 529 | \geq 40 | KN/m | \geq 70 |
| Elongation at break of coating | GB/T 1040.1 | >80 | % | >110 |
| Tensile strength | | >15 | Mpa | >25 |
| PPF Elongation at break | | >200 | % | >350 |
| 100% modulus | | >6 | Mpa | \geq 7 |

NOTE: The total thickness of the finished film is the sum of TPU thickness, coating thickness and adhesive thickness. The aging test duration of QUA is 1000h.