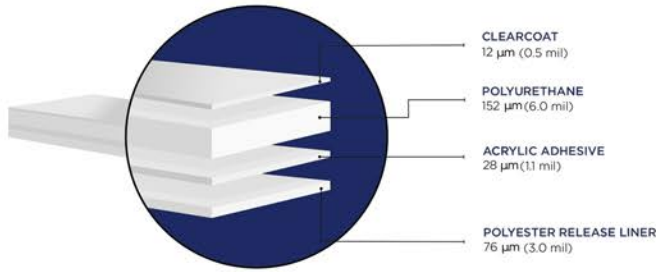


PRODUCT CONSTRUCTION



NOMINAL THICKNESS W/O RELEASE LINER
192 µm (7.6 mil) +/- 10%

Apolo PPF is a high performance, self-adhesive, clear-coated aliphatic polyurethane film designed to protect automotive paint, and other surfaces, from harmful effects of stone chips and abrasion. It has exceptional elongation properties for ease of application which allows for single piece installations. **Apolo PPF** is a very low surface energy film designed to resist staining and offers superior environmental resistance and gloss retention. The clear coat employs special elastomeric polymers that allow scratches in the surface to "heal" over time, eliminating the need for frequent polishing to maintain a just installed appearance. **Apolo PPF** is coated with ultraclear high performance acrylic adhesive which has excellent adhesion on a broad range of surfaces, while resisting disturbances during installation. This high performance acrylic adhesive is formulated to resist delamination, will not damage paint or leave behind residue upon removal post installation.

GENERAL CHARACTERISTICS

| PROPERTIES | TYPICAL VALUES | TESTING CONDITIONS | STANDARDS USED |
|---|--|--|--|
| Peel Adhesion | >4 N/cm >7 N/cm >7 N/cm >7 N/cm >7 N/cm | 20 min. @ Room Temperature 72 hr @ Room Temperature 168 hr @ 70°C (158°F) 168 hr @ 35°C (95°F) and 100% Relative Humidity After Xenon Weathering | PSTC 101 |
| Gloss | >90 GU | 60 Degree | ISO 2813 |
| Aging Tests Heat Age Water Immersion After Xenon weathering Natural Weathering - AZ Natural Weathering - FL | No Detrimental Effect No Detrimental Effect ΔE<2 / 80% Gloss Retention No Detrimental Effect No Detrimental Effect | 16 days @ 80°C (176°F) 400 hr @ 40°C (104°F) 4,500 kJ 3 yr @ 45° south-facing exposure 3 yr @ 5° south-facing exposure | SAE J2527 SAE J1976 SAE J1976 |
| Stone Chip Resistance - Gravelometer | No Detrimental Effect | 4.73 L of gravel shot at 70 psi and -29 °C (-20 °F) | ASTM D3170 SAE J400 |
| Mechanical Ultimate Strength @ Break Tensile Elongation @ Break Shrinkage | >15 MPa >200% <0.1% | Test rate: 20 in/min (500 mm/min) Test rate: 20 in/min (500 mm/min) After accelerated weathering | ASTM D882 ASTM D882 XQT 111 |
| Stain Resistance Water & Soap Spotting Acid Spotting Gasoline Diesel fuel Motor Oil Lacquer Thinner Enamel Reducer Acetone | No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect No Detrimental Effect | Immerse for 30 min, check after 24 hrs. for change | XQT201 XQT202 XQT204 XQT205 XQT206 XQT208 XQT207 XQT208 |

TARGET APPLICATIONS

Clear gloss polyurethane for stone chip protection, high wear, and abrasion in the automotive, motorcycle, RV, powersports, bicycle, aircraft, and other transportation markets.

The white part is a highlight to show where the Paint Protection Film can be installed on the automotive vehicle. This is just to show different installations you can do.

Tools Needed:

- Clay Bar
- Lint-Free Towel
- Spray Bottles
- Olfa Knife
- Carbon Blades
- 70% Isopropyl Alcohol
- Distilled water
- J&J Shampoo
- Detailed Squeegee
- Turbo Squeegee
- Black Tube Squeegee



Partial Hood and Fender



Bumper



Rocker Panels



Trunk Ledge



Door Edge



A-Pillars/Roofline



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info@midaswindowfilm.com

Notice: The representations of performance and suitability for use contained in this Technical Data Sheet are meant only as a guide. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use.