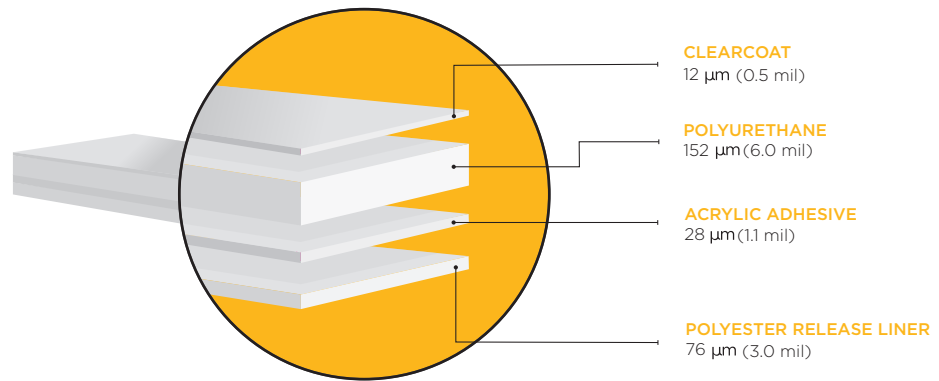


XPEL ULTIMATE PLUS™ is a high performance, self-adhesive, clear-coated aliphatic polyurethane film designed to protect automotive paint, and other surfaces, from harmful effects of stone chips and abrasion. It has exceptional elongation properties for ease of application which allows for single piece installations. **XPEL ULTIMATE PLUS™** 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. **XPEL ULTIMATE PLUS™** is coated with ultra-clear 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.

PRODUCT CONSTRUCTION



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

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

RECOMMENDED SHELF LIFE - 2 years from date of purchase*

RECOMMENDED STORAGE CONDITIONS - 72° F (22° C) @ 50% RH

*If installing film after recommended shelf-life, re-certification by XPEL is required.

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.



Partial Hood and Fender



Bumper



Rocker Panels



Trunk Ledge



Door Edge



A-Pillars/Roofline



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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.