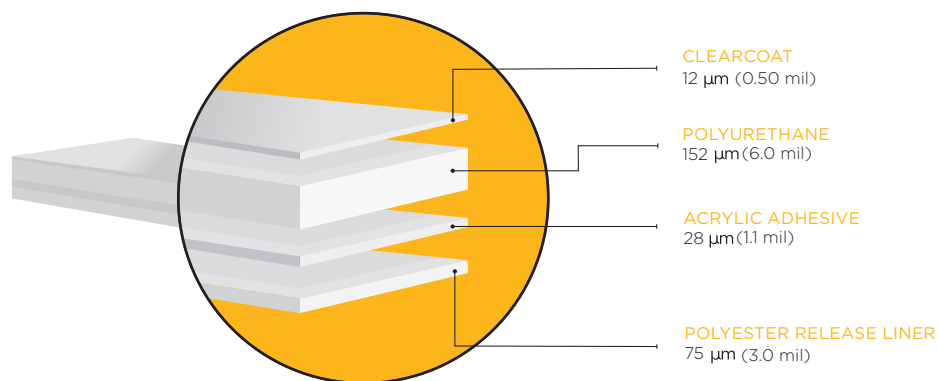


XPEL **ULTIMATE PLUS** (XUPL) is a high performance, self-adhesive, clear-coated polyurethane film designed to protect automotive paint, and other surfaces, from harmful effects of stone chips and abrasion. The clear coat employs special elastomeric polymers that allow light scratches in the surface to “heal” over time, eliminating the need for frequent polishing to maintain a just installed appearance. XPEL **ULTIMATE PLUS** (XUPL) has an ultra-clear high performance acrylic adhesive which has excellent adhesion on a broad range of surfaces, while resisting disturbances during installation. The adhesive is formulated to resist delamination and will not damage paint or leave behind residue if removed.

PRODUCT CONSTRUCTION



NOMINAL THICKNESS W/O RELEASE LINER
193 µm (7.60 mil) +/- 10%

GENERAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS	STANDARDS USED
Peel Adhesion	>4 N/cm >4 N/cm >7 N/cm	20 min @ 23°C 24 hr @ 23°C 168hr @ 80°C	PSTC 101/ASTM 3330
Gloss	>90 GU	60 Degree	ISO 2813
Aging Tests Heat Aging Xenon Weathering EMMAQUA Aging	No Detrimental Effect ΔE < 1.5, 80% Gloss Retention ΔE < 1.5, 90% Gloss Retention	168hr @ 80°C 4,500 KJ 28,000MJ/m2, 3.5 Year Exposure Equivalent	--- SAE J2527 ASTM G90
Mechanical Ultimate Strength @ Break Tensile Elongation @ Break Tear Strength	>15 MPa >300% >60 kN/m	Test rate: 20 in/min (500 mm/min) Test rate: 20 in/min (500 mm/min) Die C, 20 in/min (500 mm/min)	ASTM D882 ASTM D882 ASTM D624
Stone Chip Resistance	No Detrimental Effect	4.73 L of gravel shot at 70 PSI & -29°C	ASTM D3170/SAE J400
Chemical Resistance 3M Carburetor Cleaner Spray	Pass	60s Exposure to Carburetor Spray	
Stain Resistance Acetone Gasoline Diesel Motor Oil Armor All Soap & Water 100% Isopropyl Alcohol	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 hours for change	

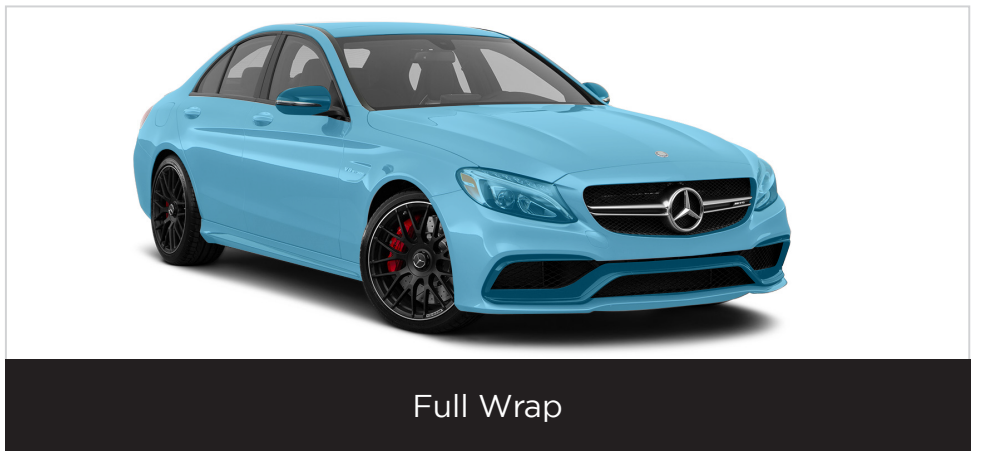
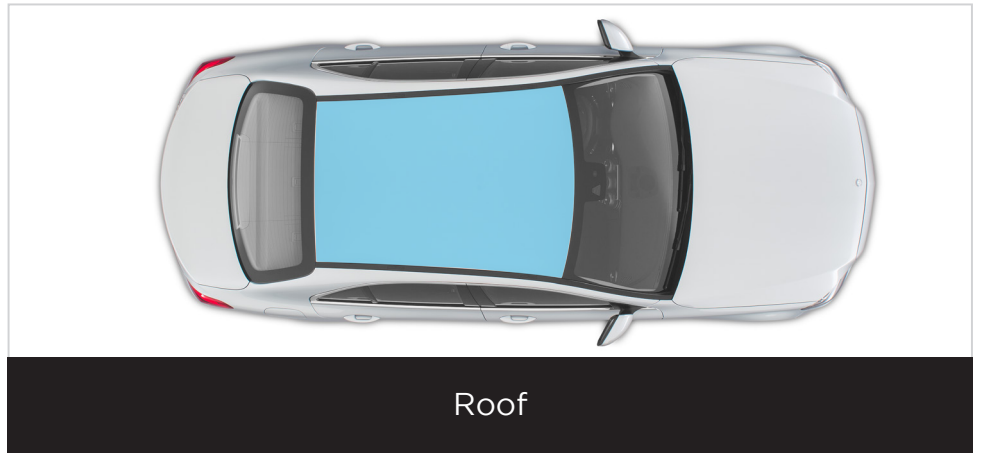
RECOMMENDED SHELF LIFE - 2 years from date of purchase*

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, and other transportation markets.



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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.