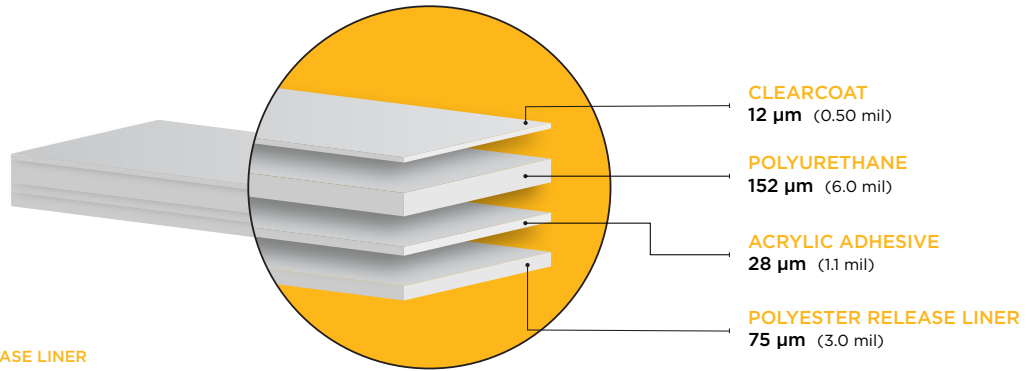


INFORMATION

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 (7.60mil) +/- 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 h @ 23 °C 168 h @ 80 °C	PSTC 101/ASTM 3330
Gloss	>90 GU	60 Degree	ISO 2813
Aging Tests Heat Aging Xenon Weathering EMMAQUA Aging	No Detrimental Effect $\Delta E < 1.5$, 80% Gloss Retention $\Delta E < 1.5$, 90% Gloss Retention	168 h @ 80 °C 4,500 kJ 28,000 MJ/m ² , 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	Exposure to Carburetor Cleaner for 60 s	-
Stain Resistance Acetone Gasoline Armor All Diesel Motor Oil 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 Immerse for 30 min, check after 24 hours for change Immerse for 30 min, check after 24 hours for change Immerse for 30 min, check after 24 hours for change Immerse for 30 min, check after 24 hours for change Immerse for 30 min, check after 24 hours for change Immerse for 30 min, check after 24 hours for change	- - - - - - -

RECOMMENDED SHELF LIFE - 2 years from date of purchase*
*if installing film after recommended shelf-life, re-certification by XPEL is required.

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

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.