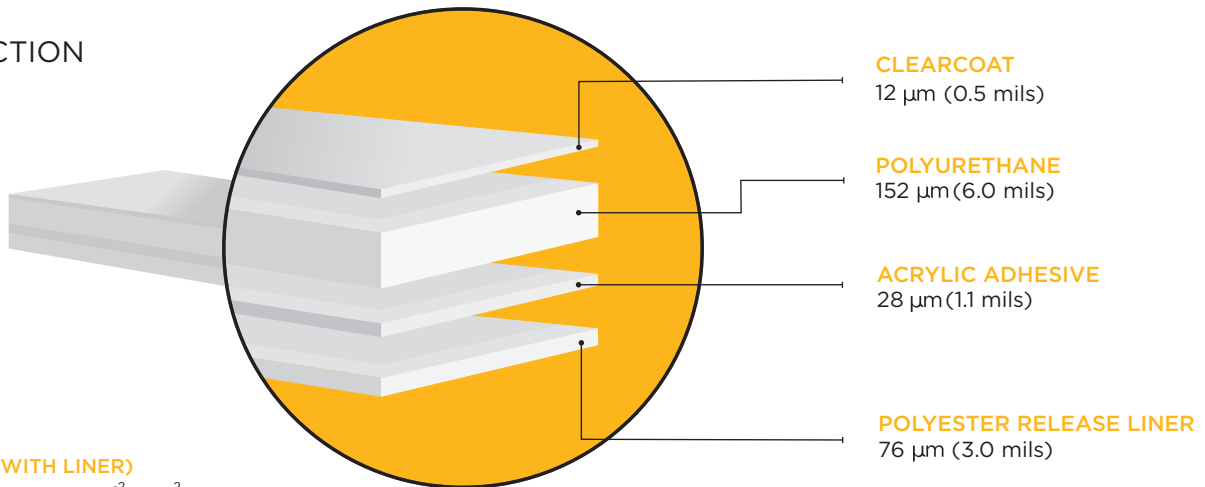


**XPEL ULTIMATE PLUS™** is a high performance, self-adhesive, clear-coated aliphatic polyurethane film designed to protect automotive paint, and other surfaces, from harmful effects of stone chips and abrasion. It has exceptional elongation properties for ease of application which allows for single piece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



**BASE WEIGHT (WITH LINER)**  
3.23 x 10<sup>-2</sup>g/cm<sup>2</sup> (6.62 x 10<sup>-2</sup>lb/ft<sup>2</sup>)

## GENERAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS	STANDARDS USED
<b>Peel Adhesion</b>	>4 N/cm >7 N/cm >7 N/cm >7 N/cm >7 N/cm	20 min. @ RT 72 hr @ RT 168 hr @ 70°C (158°F) 168 hr @ 35°C (95°F) and 100% RH After Accelerated Weathering	PSTC 101
<b>Gloss</b>	>96 %	20 Degree	ISO 2813
<b>Aging Test</b> Heat Age Water Immersion After Xenon weathering Natural Weathering - AZ Natural Weathering - FL	Pass-No Detrimental Effect Pass-No Detrimental Effect ΔE<2 / 95% Gloss Retention Pass-No Detrimental Effect Pass-No Detrimental Effect	16 days @ 80°C (176°F) 400 hr @ 40°C (104°F) 3,750 hr 3 yr @ 45° south-facing exposure 3 yr @ 5° south-facing exposure	SAE J2527 SAE J1976 SAE J1976
<b>Stone Chip Resistance - Gravelometer</b>	Pass-No Detrimental Effect		ASTM D3170 SAE J400
<b>Mechanical</b> Ultimate Strength @ Break Shrinkage Tensile Elongation @ Break	>15 MPa <0.1% >200%	Test rate: 1.0 mm/min After accelerated weathering Test rate: 1.0 mm/min	ASTM D638-95
<b>Stain Resistance</b> 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	

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

## 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.