

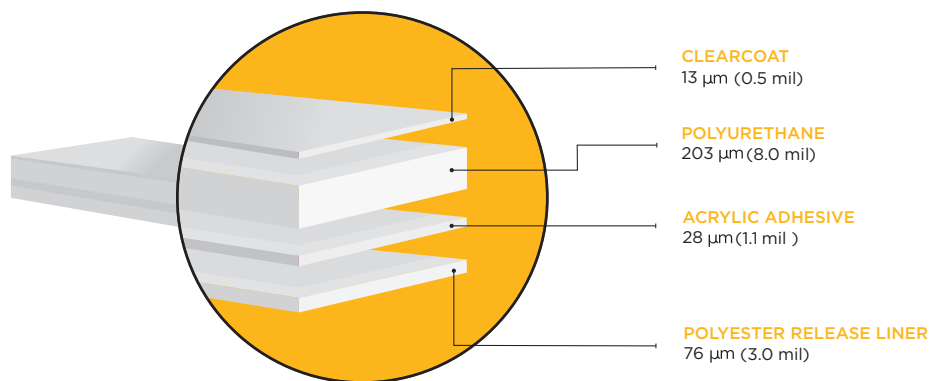
XPEL LUX MAX

PAINT PROTECTION FILM

TECHNICAL DATA SHEET **OCTOBER 2020**

XPEL LUX MAX is a high performance, ultra-thick, self-adhesive, clear-coated aliphatic polyurethane film designed to protect automotive paint, and other surfaces, from harmful effects of stone chips and abrasion. **XPEL LUX MAX** 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 LUX MAX** 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, it will not damage paint or leave behind residue upon removal post installation.

PRODUCT CONSTRUCTION



NOMINAL THICKNESS W/O RELEASE LINER
244 µm (9.6 mil) +/- 10%

GENERAL CHARACTERISTICS			
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS	STANDARDS USED
90° Peel Adhesion	> 3.5 N/cm > 4.5 N/CM	20 min post-installation @ room temp 72 HOURS POST-INSTALLATION @ ROOM TEMP	ASTM D3330, Method F ASTM D3330, Method F
Gloss	> 90 GU	60° Gloss Angle	XQT 104
Aging Tests Heat Aging Xenon-arc Accelerated Weatherometer Exposure	$\Delta E < 2$ $\Delta E < 2, >80\%$ Gloss Retention	250 h @ 80 °C 4500 kJ (3461 hours)	XCON008 SAE J2527
Stone Chip Resistance – Gravelometer	No Detrimental Effect	3 pints of gravel, 70 psi, 45° impingement angle, -20 °F	SAE J400
Mechanical Properties Ultimate Tensile Strength Elongation at Break Shrinkage	> 18 MPa > 250% < 1%	Test rate: 20 in/min Test rate: 20 in/min % Change in length after aging @ 120±2 °C	ASTM D882 ASTM D882 XQT 111
Stain Resistance Chemical Resistance (Anti-freeze) Chemical Resistance (Unleaded Fuel) Chemical Resistance (Engine Oil) Chemical Resistance (Transmission Fluid) Chemical Resistance (Glass Cleaner) Chemical Resistance (Windshield Washer Solvent)	No detrimental effect No detrimental effect No detrimental effect No detrimental effect No detrimental effect No detrimental effect	24 hour immersion 24 hour immersion 24 hour immersion 24 hour immersion 24 hour immersion 24 hour immersion	XQT 251 XQT 257 XQT 253 XQT 262 XQT 255 XQT 256

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.

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.

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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