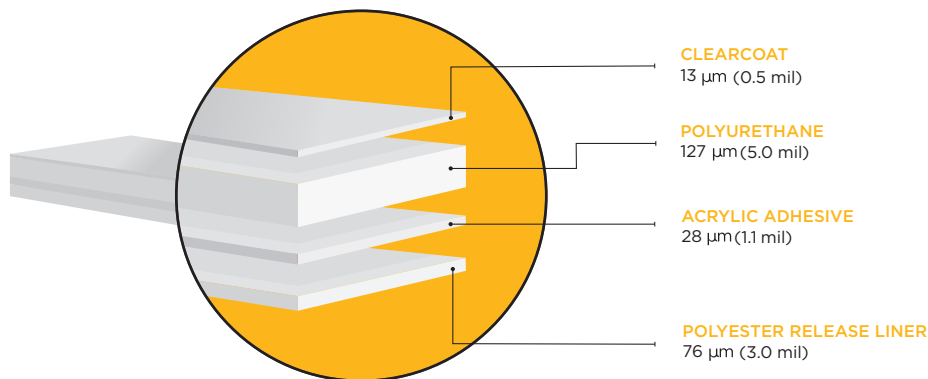


XPEL ARES is a high performance, self-adhesive, clear-coated aliphatic polyurethane film designed to protect your interior painted surfaces, and other interior surfaces, from harmful effects of chips and abrasion. It has exceptional elongation properties for ease of application which allows for single piece installations. **XPEL ARES** 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 ARES** 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
168 µm (6.6 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	ΔE < 2 ΔE < 2, >80% Gloss Retention	250 h @ 80 °C 4500 kJ (3461 hours)	XCON008 SAE J2527
Mechanical Properties			
Ultimate Tensile Strength Elongation at Break Shrinkage	> 15 MPa > 200% < 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*
*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.

TARGET APPLICATIONS

Clear gloss polyurethane for chip protection, high wear, and abrasion in the automotive and other transportation markets.



INTERIOR PROTECTION



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