

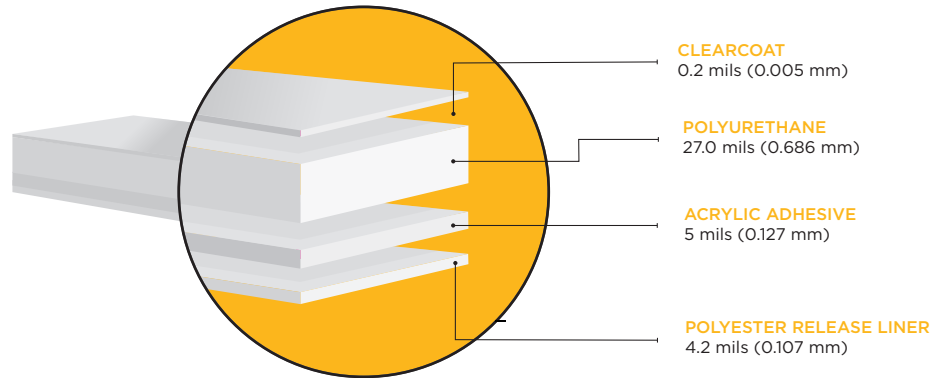
# XPEL HEADLAMP

## PAINT PROTECTION FILM

TECHNICAL DATA SHEET **DECEMBER 2018**

**XPEL HEADLAMP** Protection Film is a patented high performance self adhesive PVC film with a polyurethane scratch resistant coating, designed to protect glass and polycarbonate lighting surfaces from the harmful effects of stone chips, abrasion and weathering. This film is exceptionally conformable when heated for ease of application over the most complex contours. **XPEL HEADLAMP** Protection Film is non-yellowing and offers environmental resistance as well as super gloss retention and superior optical clarity. **XPEL HEADLAMP** Protection Film is laminated with a high performance acrylic adhesive which has excellent adhesion on a broad range of surfaces.

### PRODUCT CONSTRUCTION



### GENERAL CHARACTERISTICS

PROPERTIES	TYPICAL VALUES	UNIT OF MEASURE	TEST METHOD
<b>Physical</b> Scratch Resistant Coating Film Adhesive Liner	.02 27 5 4.2	mil + 5%	
<b>Peel Adhesion</b> Initial Peel Normal State After Heat Age After Water Immersion After Accelerated Weathering	6.9 N/cm 7.4 N/cm 16.5 N/cm 9.1 N/cm 13.7 N/cm	1 hr @ RT 7 days @ RT 16 days @ 80°C 400 hr 40°C 1000 hr	ASTM D3330
<b>Gloss</b>	>93 %	20 Degree	BS EN ISO 2813
<b>Luminous Transmittance</b>	97%		ASTM D1003
<b>Aging Test (appearance)</b> Heat Age Water Immersion Post Xenon Weathering Outdoor Exposure Boiling Water Resistance	Pass-No Detrimental Effect Pass-No Detrimental Effect 5 Pass-No Detrimental Effect Pass-No Detrimental Effect Pass-No Detrimental Effect	16 days @ 135°C 400 hr @ 40°C 1000 hr (41 days) FL exposure-3 yr 5 min @ 100°C	TSM7505G
<b>Stone Chip Resistance - Gravelometer</b>	Pass-No Detrimental Effect	5 Chipping ratings per SAE	ASTMD3170
<b>Mechanical</b> Tensile Strength Tensile Elongation @ Break	22 MPa 230%	Test rate: 1.0 mm/min	DIN 53 455
<b>Solvent Testing</b> MEK Toluene Acetone Gasoline	Pass-No Detrimental Effect Pass-No Detrimental Effect Pass-No Detrimental Effect Pass-No Detrimental Effect	10 Double Wipes	

## SHELF LIFE

XPEL recommends XPEL HEADLAMP Protection Film be stored at at 50°F-90°F, and 40%-60% RH. Film should be used within three years of purchase.

## INSTALLATION

XPEL HEADLAMP Protection Film is designed to be used on lamp surfaces which the operating temperature reaches no greater than 280°F continuous, including all halogen, Xenon, and HID lamps. XPEL maintains a complete set of detailed installation instructions and installation videos, which may viewed at [WWW.XPEL.COM](http://WWW.XPEL.COM). Generally, a wet application of the product is recommended.

## WARRANTY

XPEL warrants XPEL HEADLAMP Protection Film to be free of any manufacturing or workmanship defects for seven (7) years from the date of purchase. The warranty does not cover damage to XPEL HEADLAMP Protection Film caused by erroneous application, accidents or collisions, intentional misuse or ordinary wear, nor damage or chips to the protected surface or film caused by impact of rocks or any other debris. XPEL will replace any film that does not meet this warranty. The replacement of damaged film is the exclusive remedy; liability does not extend to any other damages, incidental, consequential or otherwise.

## NOTICE

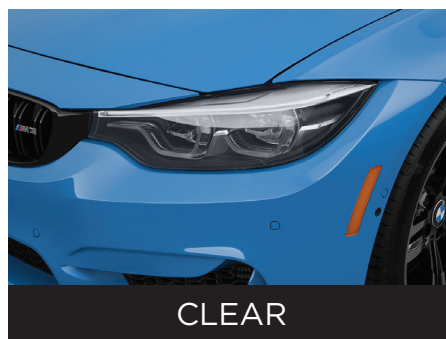
The representations of performance and suitability for use contained in this Technical Data Sheet are meant only as a guide. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use.

### TARGET APPLICATIONS

Press polished polyurethane coated PVC for stone chip and weathering protection, high wear and abrasion

### TYPICAL INDUSTRY SECTORS

Automotive, motorcycle, RV, powersports, and aircraft lighting



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