

XPEL Protection Film - STEALTH

High Performance Matte Aliphatic Polyurethane Film



Technical Data Sheet – April 2010

General Description:

XPEL STEALTH Clear Paint Protection Film is a patent pending matte finish, self adhesive, 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, allowing for single piece installations with few seams.

Unlike our other films, XPEL Matte Protection Film alters the appearance of any vehicle to perfectly mimic the matte finish paint found on many high end exotic sports cars. XPEL STEALTH provides the same level of chip protection to the paint underneath as our other paint protection films. XPEL Protection Films are coated with ultra clear high performance acrylic adhesive which has excellent adhesion on a broad range of surfaces.

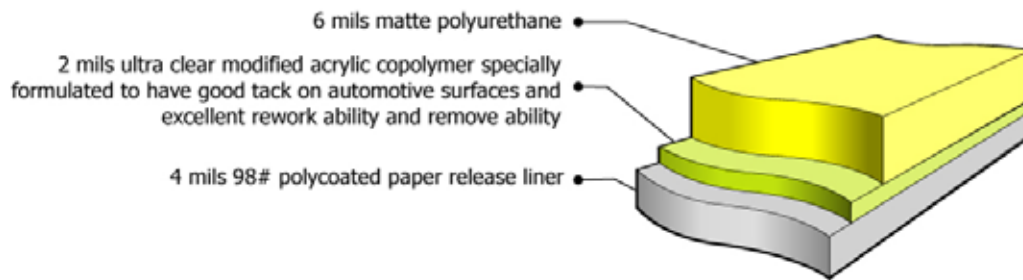
Typical Applications:

Matte finish polyurethane for stone chip protection, high wear and abrasion

Typical Industry Sectors:

Automotive, motorcycle, RV, powersports, bicycle, aircraft and most modes of transportation

Film Construction:



GENERAL CHARACTERISTICS			
Properties	Typical Values	Unit of Measure	Test Method
Physical			
Film	6	mil ± 5%	
Adhesive	2		
Liner	4		
Peel Adhesion			
Initial peel	5.6 N/cm	1 hr @ RT	TSM7505G
Normal State	7.53 N/cm	7 days @ RT	
After Heat Age	17.6 N/cm	16 days @ 80°C	
After Water Immersion	10.2 N/cm	400 hr 40°C	
After accelerated weathering	14.6 N/cm	1000 hr	
Gloss	<0.5%	20 Degree	BS EN ISO 2813
Aging Test (appearance)			
Heat Age	Pass-No Detrimental Effect	16 days @ 80°C	TSM7505G
Water Immersion	Pass-No Detrimental Effect	400 hr 40°C	
Post Xenon weathering	Pass-No Detrimental Effect	1000 hr (41 days)	
Outdoor exposure	Pass-No Detrimental Effect	FL exposure-1 yr	
Boiling water resistance	Pass-No Detrimental Effect	5 min in boiling water	
Stone Chip Resistance - Gravelometer	Pass-No Detrimental Effect	Chipping ratings per SAE	ASTMD3170
Mechanical			
Ultimate Strength @ Break	66.4 MPa	Test rate: 1.0 mm/min	ASTMD638-95
Modulus	59.1 MPa		
Tensile Elongation @ Break	435.2%		
Solvent Testing			
Water & Soap Spotting	No Detrimental Effect	Immerse for 30 min check in 24 hrs. for change	
Acid Spotting	No Detrimental Effect		
Salt Spray Resistance	No Detrimental Effect		
Gasoline	No Detrimental Effect		

Shelf Life:

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

Installation:

XPEL Protection Film is designed to be used on any fully cured OEM paint surface. Surfaces that have been repainted are only suitable for installation of the film if the surface was repainted according to recommendations as set by the OEM. XPEL maintains a complete set of detailed installation instructions, which may viewed at www.xpel.com. Generally, a wet application of the product is recommended.

Warranty:

XPEL Technologies Corp. warrants XPEL 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 Protection Film caused by erroneous application, accidents or collisions, intentional misuse or ordinary wear, nor damage, dents 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.



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