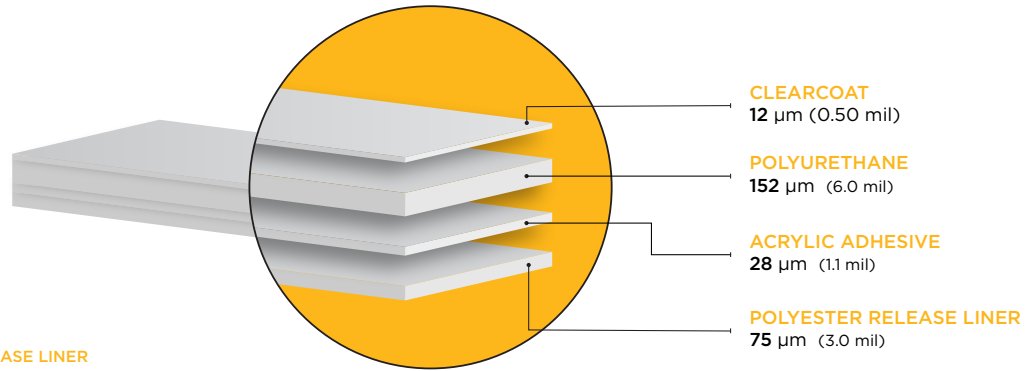


INFORMATION

XPEL Marine **Protection Film** (PFM) is a high performance, self-adhesive, clear-coated polyurethane film designed to protect your vessel from harmful effects of abrasion, corrosion, and UV exposure. The topcoat employs special elastomeric polymers that allow scratches in the surface to “heal” over time, eliminating the need for frequent polishing to maintain a pristine finish. XPEL Marine **Protection Film** is coated with an 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 even in the harshest of marine environments.

PRODUCT CONSTRUCTION



NOMINAL THICKNESS W/O RELEASE LINER
193 µm (7.60 mil) +/- 10%

GENERAL CHARACTERISTICS

PROPERTIES	TESTING STANDARDS	MEASUREMENT UNIT	TYPICAL VALUES
Peel Adhesion	>4 N/cm >4 N/cm >7 N/cm	20 min @ 23°C 24 hr @ 23°C 168hr @ 80°C	PSTC 101/ASTM 3330
Gloss	>90 GU	60 Degree	ISO 2813
Aging Tests Heat Aging Xenon Weathering EMMAQUA Aging	No Detrimental Effect ΔE < 1.5, 80% Gloss Retention ΔE < 1.5, 90% Gloss Retention	168hr @ 80°C 4,500 KJ 28,000MJ/m ² , 3.5 Year Exposure Equivalent	--- SAE J2527 ASTM G90
Mechanical Ultimate Strength @ Break Tensile Elongation @ Break Tear Strength	>15 MPa >300% >60 kN/m	Test rate: 20 in/min (500 mm/min) Test rate: 20 in/min (500 mm/min) Die C, 20 in/min (500 mm/min)	ASTM D882 ASTM D882 ASTM D624
Chemical Resistance 3M Carburetor Cleaner Spray	Pass	60s Exposure to Carburetor Spray	
Stain Resistance Acetone Gasoline Diesel Motor Oil Armor All Soap & Water 100% Isopropyl Alcohol	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 hours for change	

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.