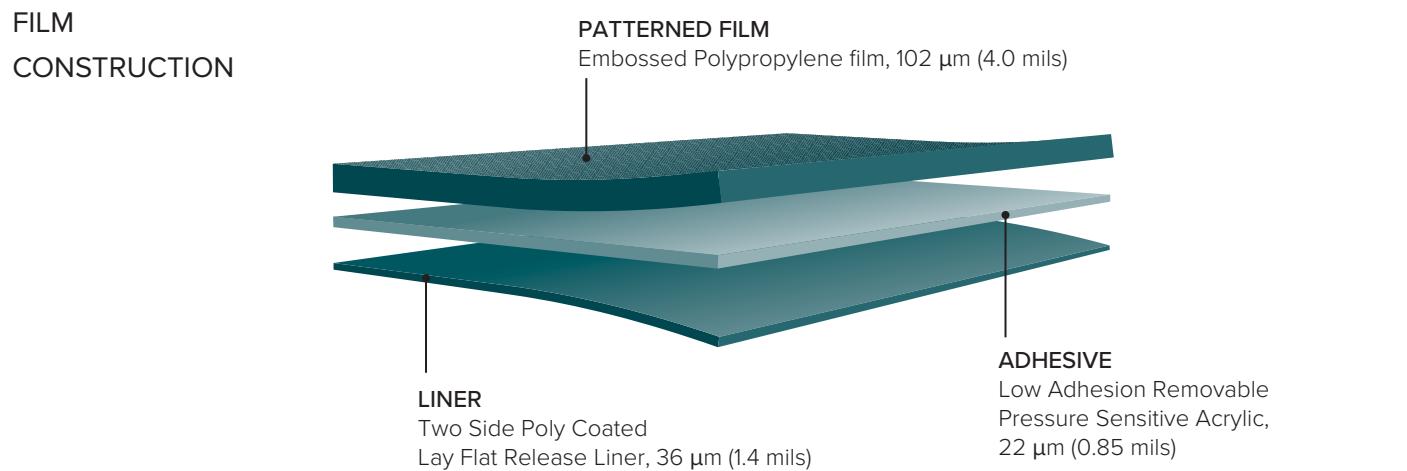


SharkletShield™ Polypropylene film is a Sharklet® microtexture embossed clear polypropylene film with a low adhesion removable pressure sensitive acrylic adhesive backed with a clear ultra smooth polyester release liner.

NOTE:

Application environments and certain surfaces such as vinyl, glass, acrylic, styrene, polycarbonate can cause increased adhesion and adhesive transfer. We recommend that all surfaces be tested for compatibility and removability.



GENERAL CHARACTERISTICS			
PROPERTIES	TYPICAL VALUES	TESTING CONDITIONS	STANDARDS USED
Adhesion From Stainless Steel Acrylic Glass Polypropylene	Average oz/in (N/m) 6.0 (40) 9.5 (88) 7.0 (54) 5.5 (53)	72 hr. @ RT 3.5 mil clear vinyl	ASTM D 903 (Modified for dwell time)
Expected Adhesive Shear	>25 hrs.	1 hr. dwell, 1 sq. in., 4 lb. load	ASTM D 3654
Adhesive Tack	160 g		ASTM D 2979
Dimensional Stability	MD: 0.75 % TD: 0.75 %	Al panel at 160 °F (71 °C) for 24 hr.	
Expected Exterior Life	90 days		
Service Temperature Range	- 20 °F to 176 °F (- 29 °C to 80 °C)		
Minimum Application Temp	50 °F (10 °C)		

The general characteristics, descriptive information and typical performance data provided herein shall be used as a guide only and shall in no event constitute a warranty of any kind by Sharklet®. All purchasers of Sharklet® products shall be responsible for independently determining and assessing the suitability and fitness of the material for the purpose for which it is purchased and ensuring the application, use and disposal of the product is in compliance with all relevant laws, rules and regulations.

RECOMMENDED STORAGE CONDITIONS - Six months @ 70 °F (21 °C) and 50% RH

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WHAT IS SHARKLET

The Sharklet® micropattern is engineered to reduce the adherence and transfer of microbes. Sharklet® represents a departure from traditional antimicrobial technologies. It does not use any chemical or metal additives to kill microorganisms, but instead features a non-toxic pattern that reduces surface energy and limits attachment. Chemical additions can contribute to resistant strains of germs and may be hazardous in sensitive applications such as hospitals, children, and the elderly.

The Sharklet® micropattern is comprised of millions of microscopic features arranged in a repeating diamond pattern. The dimensions of each feature are only microns wide and deep, and the texture cannot be seen or felt. Sharklet® is engineered to produce an anti-fouling effect through enhancing the surface energy of commonly used materials, similar to how it works on actual sharks.

EFFECTIVE AGAINST

Gram positive bacteria (ie. *Staphylococcus aureus*, *Enterococcus faecalis*, *Streptococcus pneumonia*, etc.)

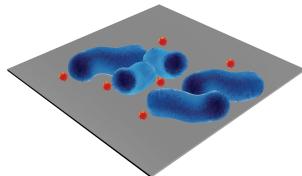
Gram negative bacteria (*Pseudomonas aeruginosa*, *Escherichia coli*, *Klebsella pneumonia*, etc.)

Bacterial Spores (*Bacillus atrophaeus*)

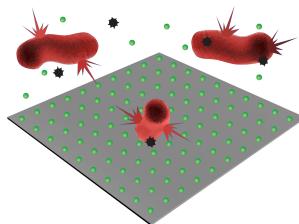
Viruses (Coronavirus, Influenza B Virus, Bacteria phage, etc.)

Fungus (*Candida albicans*)

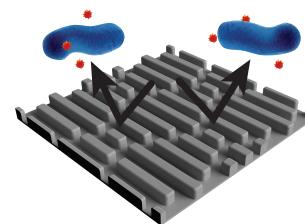
WHY IT'S DIFFERENT



On an untreated surface, germs transfer to the surface, attach, and begin forming colonies.



On a traditional antimicrobial surface, chemical or metal additives leach away from the surface, killing microbes.



On a Sharklet® surface, germ colonization and transfer is reduced by up to 95%, preventing growth of germs.

SUGGESTED DESCRIPTIONS

Reduced transfer of germs

Prevents attachment and colonization of microorganisms

Protection against the spread of germs

PUBLICATIONS

Xu and Wei et al. J. Medical Microbiology. 2017. DOI 10.1099/jmm.0.000600

Chung et al. Biointerphases. 2007. DOI: 10.1116/1.2751405

Mann et al.: Antimicrobial Resistance and Infection Control 2014. DOI:10.1186/2047-2994-3-28

Mann et al.: JMEN 2014. DOI: 10.15406/jmen.2014.01.00032

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