



PALCLAD™ PRO

Active Antimicrobial PVC Wall Cladding System

OVER 50 YEARS OF
PROVEN EXPERTISE



Better Outcomes Start Here



- Virtually Seamless Once Assembled
- Zero Grime-harboring Cracks or Crevasses
- Tough: Scratch, Dent, and Chemical Resistance
- Meets Strict JIS Z 2801/ISO 22196 Standards



Won't support
bacteria or mold



Extremely
durable



Class A
fire rated



20 year limited
warranty

Active Antimicrobial
PVC Wall Cladding System for

- Pre-Op
- Surgical Suite
- PACU
- Stage 2 Recovery
- Pharmacy
- Corridors and Rooms

Better Outcomes

Start Here

About Palram

A Global Leader in Thermoplastic Panels

Palram is a leading multinational manufacturer of thermoplastic sheets and panel systems, produced from Polycarbonate and PVC. Founded in 1963, our continual focus on production technology and product advancement allows us to deliver competitive solutions and top-level service to our customers. Palram products are designed to suit a diverse range of wall cladding applications encompassing projects around the world.

INNOVATIVE, AFFORDABLE SOLUTIONS FOR A STERILE ENVIRONMENT

Palram Americas, established in 2001, delivers excellence to the US market, backed by professional support and service. Palram is proud to offer innovative PVC technologies that bring active microbe elimination to a wide range of applications—*taking hygienic care one step further.*



To-the-Core Active Antimicrobial Protection

PALCLAD PRO™ Active Antimicrobial PVC Wall Cladding System

PALCLAD PRO offers a practical, cost efficient, and comprehensive package that helps maintain a sterile environment.

The system combines flat PVC panels, produced by Palram for over 50 years, with color-matched welding rods for a seamless finish. Covering large areas is made easy with the PALCLAD PRO Cladding System, and its impact and chemical resistance makes it ideal for use in hospitals, sterile/clean rooms, pharmaceutical facilities, laboratories, and clinics.

The PALCLAD PRO system ensures many years of service that will not be affected by frequent cleaning, simplifying maintenance and enhancing long-term aesthetics.

IN CLINICAL TESTING, PALCLAD PRO
DESTROYED 99.99% OF BACTERIA AND MOLDS
EXPOSED TO IT OVER A 24-HOUR PERIOD

PALCLAD PRO Key Features

- Silver ion-infused proprietary blend distributed to the core of the panel, providing equally effective antimicrobial resistance for scratched or damaged surfaces
- Kills or inhibits the growth of a wide variety of pathogens on contact, including MRSA and VRE, as well as mold and fungi
- High-impact resistant surface protects from scratching, dents, and harsh chemicals
- Easy to install and maintain
- Tested to JIS Z 2801/ISO 22196 Standards
- Class A fire rating
- Certified lead free
- Additives used in PALCLAD PRO are registered with the EPA, FDA, and BPR (Biocidal Products Regulation)

Colors



Other colors are available on special order, subject to minimum quantity. Please order samples for the best color representation.

Finishes

PALCLAD Pro is available in Gloss and Matte finishes.



Project: Birthing Room



Project: Children's Hospital

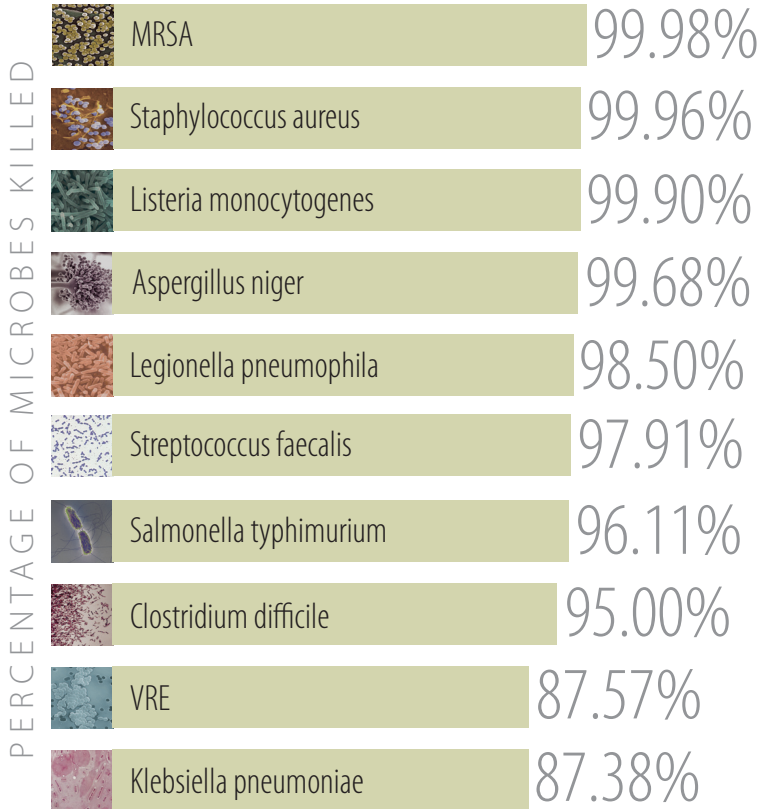


Project: Operating Room

Lab Test: Microbe Elimination on Sample Sheets

JIS Z 2801/ISO 22196 standard was selected as test procedure. Prior to testing, all the tested samples were cut to 50x50mm pieces and soaked for 1 minute in 70% ethanol, which was then dried in an oven at 45°C for 4 hours. The samples of the tested materials were inoculated with 0.1ml of microorganism culture and covered with a film/glass cover to prevent evaporation. The samples were then incubated at 29°C to 37°C according to the microbe's preferred growing conditions. Viable organisms were recovered by steeping the tested sample in a phosphate buffer, and then serially diluting the fluid. Four separate identical samples of 0.1ml of each concentration were then dispersed on Petri dishes containing Nutrient Agar matched to the type of bacteria, then incubated for 24/48 hours at 29°C to 37°C. Colonies were then counted and the concentration was calculated, the result reported is the average. A control (no antimicrobial additive) was run for each microorganism tested (included are some of the different strains of bacteria and Fungi tested).

Test Results (CFU Reduction after 24H)



Conclusions

The results show that PALCLAD PRO panels demonstrate high antimicrobial activity. Use of PALCLAD PRO along with an adequate cleaning regime, would significantly reduce microbial and dangerous pathogen growth.

Panel Physical Properties

Property	ASTM Method	Conditions	Units	Value
Density	D-792		g/cm ³	1.4
Heat deflection temperature (H.D.T.)	D-648	Load: 1.82MPa	°C	65 - 68
Service Temperature			°C	-10 to +50
Thermal conductivity	C-177		W/m K	0.15
Coefficient of linear thermal expansion	D-696		cm/cm °C	6.7 x 10 ⁻⁵
Rockwell hardness	D-785		R Scale	97R
Tensile strength at yield	D-638	10 mm/min	MPa	50
Tensile strength at break	D-638	10 mm/min	MPa	45
Elongation at yield	D-638	10 mm/min	%	3
Elongation at break	D-638	10 mm/min	%	>80
Tensile modulus of elasticity	D-638	1 mm/min	MPa	2,900
Flexural strength	D-790	1.3 mm/min	MPa	80
Flexural modulus	D-790	1.3 mm/min	MPa	2,700
Impact falling weight	ISO 6603/1 E50	3 mm sheet	J	95

Dimensions

Thickness	Width x Length
1.5 mm	4' x 8' and 4' x 10'
2.0 mm	4' x 8' and 4' x 10'
2.5 mm	4' x 8' and 4' x 10'

All sizes available in glossy and matte finishes.

Flammability

PALCLAD PRO is self-extinguishing and complies with the most demanding international fire resistance standards defined in the field of plastics, as shown in the attached table.

Panel Type	Standard	Classification
Standard Panel	ASTM E 84	Class A
	BS 476/7	Class 0
	EN 13501	B, s3, d0



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