



PALCLAD™ PRO HYG

OVER 50 YEARS OF
PROVEN EXPERTISE

Active Antimicrobial PVC Wall Cladding System



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 HYG Active Antimicrobial PVC Wall Cladding System

PALCLAD PRO HYG 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 HYG Cladding System, and its impact and chemical resistance makes it ideal for use in hospitals, sterile/clean rooms, pharmaceutical facilities, laboratories, clinics, and more.

The PALCLAD PRO HYG 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 HYG DESTROYED 99.99% OF BACTERIA AND MOLDS EXPOSED TO IT OVER A 24-HOUR PERIOD

PALCLAD PRO HYG 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 2810/ISO 22196 Standards
- Class A fire rating
- Certified lead free
- 20 year limited warranty

Colors

White	Beige	Ocean Blue	Green Grape
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Other colors are available on special order, subject to minimum quantity. Please order samples for the best color representation.

Finishes

PALCLAD PRO HYG has a matte finish. Smooth finish is available on special order, subject to minimum quantity.



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 HYG panels demonstrate high antimicrobial activity. Use of PALCLAD PRO HYG 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		lbs/ft3 (g/cm3)	87 (1.4)
Heat deflection temperature (H.D.T.)	D-648	Load: 1.82MPa	°F (°C)	149-154 (65-68)
Service temperature			°F (°C)	14-122 (-10 to +50)
Thermal conductivity	C-177		Btu-in/hr-ft2-°F (W/m K)	1.04 (0.15)
Water absorption	D-570		%	< .2
Coefficient of linear thermal expansion	D-696		in/in °F (cm/cm °C)	3.7x10 ⁻⁵ (6.7x10 ⁻⁵)
Shore D hardness	D-2240		Shore D	80
Tensile strength at yield	D-638	10 mm/min	Psi (Mpa)	7250 (50)
Tensile strength at break	D-638	10 mm/min	Psi (Mpa)	6500 (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	Psi (Mpa)	420,600 (2900)
Flexural strength	D-790	1.3 mm/min	Psi (Mpa)	11,600 (80)
Flexural modulus	D-790	1.3 mm/min	Psi (Mpa)	391,000 (2700)
Notched izod impact	D-256		lbf (J/m)	26 (118)
Impact falling weight	ISO 6603/1E50	2.5 mm sheet	ft-lbf (J)	31 (43)
Chemical resistance	D-543	2.5 mm sheet		Pass

Dimensions

Color	Thickness	Width x Length
White	2.0 mm & 2.5mm	4' x 8' & 4' x 10'
Beige	2.0 mm & 2.5mm	4' x 8' & 4' x 10'
Ocean Blue	2.0 mm & 2.5mm	4' x 10'
Green Grape	2.0 mm & 2.5mm	4' x 10'

All sizes available in matte finish. Smooth finish is available on special order, subject to minimum quantities.

Flammability

PALCLAD PRO HYG 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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Curbell Plastics is a proud supplier of Palram materials.



Inasmuch as Palram Americas has no control over the use (and/or Installation method) to which others may put this material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make their own test to determine the suitability of the material for their own particular use. In the event of a warranty claim for product failure, Palram Americas reserves the right to inspect any or all of the sheets involved and the installation site itself while the sheets are still in their original position and have not been removed or moved or altered in any way.