

# HYG Products

## PVC Cladding with Active Antimicrobial Protection



### Overview

Innovative HYG technology has set a new standard in hygienic cladding by offering active antimicrobial cladding with low maintenance requirements. Palopaque HYG has either killed or inhibited growth of all pathogens tested to date. As silver ions are uniformly distributed throughout the sheet, scratched or damaged surfaces will be equally effective.

Overall maintenance costs can be reduced even further since Palopaque HYG requires less concentrated and more economical cleaning agents in comparison with standard cladding.

### Main Benefits

- ❖ Active antimicrobial protection: Kills microbes.
- ❖ Complete hygienic cladding system.
- ❖ Palram exclusive HYG profiles.
- ❖ Long lasting antimicrobial effect.
- ❖ Biocidal capabilities proven by independent tests.
- ❖ Resists a wide range of chemicals.
- ❖ Withstands frequent cleaning.
- ❖ Rigid PVC: not digestible by bacteria.
- ❖ High fire resistance.
- ❖ Excellent adhesion properties.
- ❖ Easy to install and maintain.
- ❖ Formable: HYG properties are maintained after processing.

### Typical Applications

#### Public Facilities

- ❖ Schools
- ❖ Restrooms
- ❖ Airports
- ❖ Kitchens

#### Food Industry

- ❖ Food manufacturing facilities
- ❖ Sorting halls
- ❖ Storage/refrigeration rooms
- ❖ Food transport trucks

#### Medical

- ❖ Sterile/clean rooms
- ❖ Hospitals
- ❖ Clinics
- ❖ Pharmaceutical plants

#### Agriculture

- ❖ Livestock, poultry and dairy farms
- ❖ Egg sorting halls
- ❖ Storage/refrigeration chambers

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### Product Availability

HYG products are currently available as Palopaque flat sheets in standard thicknesses and dimensions.

Width x Length	Thickness
1220 x 2440	1 to 15
1000 x 2000	1 to 10
1500 x 3000	1 to 6

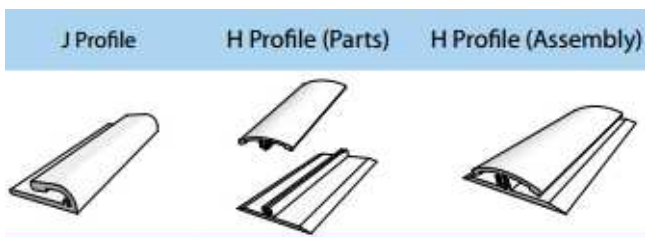
### Colours

Palopaque HYG is available in a wide range of standard and special designer colours. The complete range is listed in the HYG products brochure.



### Hygienic Cladding System

Palopaque HYG panels are offered as a complete cladding system. The profiles, listed below, are offered with the same antimicrobial effect matching colours as the panels.



### Palopaque Typical Physical Properties

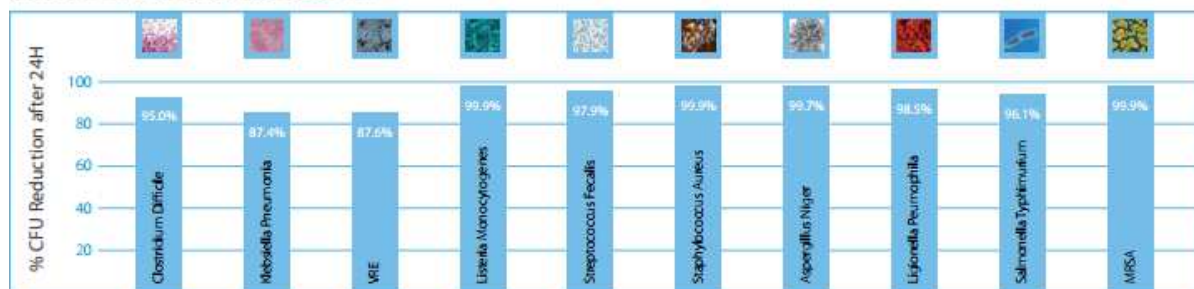
Property	Method	Conditions	Units	Value
Density	D-792	-	g/cm <sup>3</sup>	1.4
Heat deflection temp	D-648	Load:1.82MPa	°C	65 – 68
Service temperature	-	-	°C	-10 to50
Thermal conductivity	C-177	-	W/mK	0.15
Coefficient of LTE	D-696	-	Cm/cm°C	6.7x10
Rockwell hardness	D-785	-	R Scale	97R
Tensile strength at yield	D-638	10mm/min	MPa	52
Tensile strength at break	D-638	10mm/min	MPa	50
Elongation at yeild	D-638	10mm/min	%	3
Elongation at break	D-638	10mm/min	%	140
Tensile modulus of elasticity	D-638	1mm/min	MPa	2,900
Flexural strength	D-790	1.3mm/min	MPa	80
Flexural modulus	D-790	1.3mm/min	MPa	2,700
Impact falling weight	ISO6603/1	3mm sheet	J	95

### Flammability

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

Standard	Classification
EN 13501	B, s3, d0
DIN 4102	B-1
BS 476/7	Class 1
NSP 92501, 5	M-1
ASTM E 84	Class A

### Microbe Elimination Test\*



\*In an independent lab test, 10 common microbes were selected, and each of them was incubated on PALOPAQUE HYG panels for 24hrs at 37°C and >90% RH. As the graph shows, HYG panels demonstrate high antimicrobial activity. Use of HYG Products, along with adequate cleaning regime, would significantly reduce microbial growth, including dangerous pathogens.