

# Palruf

## Corrugated PVC Sheet



### Overview

Palruf corrugated PVC sheet is an all-round durable roofing solution, combining excellent resistance to chemicals, fire and impact.

Palruf endures harsh chemical environments where other roofing materials will quickly become corrode making it ideal for roofing, siding and cladding applications in industry, agriculture and construction.

Palruf is available in a variety of clear and opaque colours and many profiles. It can be easily installed in DIY applications around the house using ordinary tools.

### Main Benefits

- ❖ Excellent chemical resistance
- ❖ Weather and UV resistance
- ❖ High fire resistance
- ❖ Palruf HYG: Active hygiene
- ❖ Will not rust or corrode
- ❖ Ideal for arched roofs & curved walls
- ❖ High impact – resists breakage
- ❖ Easily handled, quickly installed
- ❖ Requires minimum maintenance



### Typical Applications

#### Construction

Coastal construction, public buildings, parks, sports and recreation facilities.

#### Industry

Chemical and pharmaceutical plants, ports, pulp and paper plants, power stations, mines, metal processing facilities.

#### Agriculture

Greenhouses, cow sheds, henhouses, pigpens, barns and machinery sheds.

#### Do-It-Yourself

Sun houses, skylights, garages (carports), porches, patio enclosures, verandas, pool enclosures, awnings, partitions and gazebos.

#### Food Industry

Food manufacturing plants, storage and refrigeration rooms, sorting halls.















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### Colors

<b>Opaque</b>	White, Light Grey, Beige, Light Green Light Blue
<b>Transparent</b>	Clear, Bronze
<b>Translucent</b>	White Opal, White Diffuser, Blue

### Standard Dimensions\*

Profile	Designation	Drawing	Thickness (mm)	Width (mm)	Length (m)
Mini	32/9		0.8	660, 750, 1040	1.5 - 6.0
Iron/Sinus 76	76/18		0.8 - 1.5	660, 860, 900, 1150	1.5 - 11.6
Greca/Trapeze	76/18		0.8 - 1.3	1045, 1060, 1140, 1145, 1190	1.5 - 11.6
Greca/Trapeze	75/19		0.75 - 1.0	1135	1.5 - 11.6
Greca/Trapeze	70/18		0.8 - 1.5	550, 765, 1090, 1103	1.5 - 11.6
5,6 Waves	177/51		0.8 - 2.0	920, 1100, 1170	1.5 - 6.0
3" Standard	72/20		0.8, 1.0, 1.3	755	1.5 - 11.6
American 2.6"	67.8/20		2.0	1020	1.5 - 6.0
American 4.2"	107/27		1.8 - 4.5	1070	1.5 - 11.6
Big 6"	146/48		1.1, 1.3, 2.0	1086	1.5 - 6.0
Astoria	305/38		2.2	1015	1.5 - 6.0
Industrial 0100	250/40		1.8 - 3.0	1066	1.5 - 6.0
7.2"	183/38		2.0 - 3.0	967, 1150, 1217	1.5 - 11.6
5102	382/50		2.0 - 3.0	1620	1.5 - 11.6

\*Custom designed profiles are available upon request, subject to minimum order.

### Weather and UV Resistance

PALRUF maintains its physical properties and attractive appearance despite exposure to all types of climatic conditions. These include harmful UV radiation, humidity, rain and snow. PALRUF also provides weather protection over a large temperature range, from -20°C to 50°C. PALRUF **should not** be used in the vicinity of chimneys where soot may fall on the sheets.

### Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm <sup>3</sup>	1.4
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MP	°C	61 - 67
Service Temperature Range			°C	-20 to +50
Thermal conductivity	C-177		W/m K	0.16
Coefficient of linear thermal expansion	D-696		cm/cm°C	6.3 x 10 <sup>-5</sup>
Impact strength	ISO 6603/1	2 mm sheet	J	45 - 60
Tensile strength at yield	D-638	10 mm/min	MPa	50 - 66
Tensile strength at break	D-638	10 mm/min	MPa	39 - 53
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	90 - 100
Flexural modulus	D-790	1.3 mm/min	MPa	2,700
Rockwell hardness	D-785		R Scale	105 - 115

\* ASTM method except where noted otherwise.

### Flammability

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

Method	Classification*
DIN 4102	B-1
BS 476/7	Class 1
NSP 92501, 5	M-1
FMRC 4870	Class 1

\* For more information please contact your Palram distributor.

### PALRUF® Product Range

Product	Description
AG-TUF*	Liner panel for indoor applications
PALRUF* Opaque	Opaque sheet inherently UV resistant, suitable for all applications.
PALRUF* Clear	Clear UV stabilized sheet, ideal for DIY applications
PALRUF* Opal	UV stabilized sheet, reduced light transmission (~35%)
PALRUF* High Impact	With increased impact resistance and durability.
PALRUF* HYG	With active antimicrobial action, ideal for livestock applications.