



PALCLEAR® IND

Transparent PVC Sheet for Partitioning Applications



CONSTRUCTION



FABRICATION



SIGN & DISPLAY



Overview

PALCLEAR IND provides versatile solutions for indoor partitioning applications in commercial environments including retail, healthcare and manufacturing.

PALCLEAR IND has remarkable mechanical properties. It offers excellent fire resistance and withstands physical impact. It can be thermoformed and joined with mechanical fasteners and is easily fabricated using conventional tools.

PALCLEAR IND withstands many chemical agents, industrial cleansers and sanitizers.

PALCLEAR IND has protective film on two sides to help keep it clean and scratch-free during installation.

Main Benefits

- Superior chemical & corrosion resistance
- Can be thermoformed, vacuum formed, heat-bent
- Protective film masking on two sides
- Easy to fabricate or machine
- 100% recyclable thermoplastic
- Made in the UK

Typical Applications

- Protective partitions, barriers, dividers for retail, office, healthcare and manufacturing environments.
- Chemical processing areas
- Semiconductor / server rooms
- Decontamination rooms
- Wet-process equipment, splash guards
- Vapor blocking and fume exhaust hoods
- Machine and conveyor guards
- Chemically resistant safety glazing



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Available Dimensions for PALCLEAR IND

Call Palram for up-to-date availability on unlisted products and run to size orders.

Thickness (mm)	Width (mm)
3	1220, 1500, 2000
4 - 5	1220, 1500
6	1220

*Special dimensions are available with minimum order requirements.

Flammability

PALCLEAR is self-extinguishing and complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Standard	Classification*
EN 13501	B, s3, d0
BS 476/7	Class 1
UL 94	V-0

* For more detailed information please contact your Palram distributor.



Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1.4
Water absorption		24 hr. at 23°C	%	0.03
Heat deflection temperature	D-648	Load: 1.82MPa	°C	60
Service temperature range			°C	0 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
Tensile strength at yield	D-638	10 mm/min.	MPa	71
Tensile strength at break	D-638	10 mm/min.	MPa	20
Elongation at yield	D-638	10 mm/min.	%	3
Elongation at break	D-638	10 mm/min.	%	30
Tensile modulus of elasticity	D-638	10 mm/min.	MPa	3,200
Flexural strength	D-790	1.3 mm/min.	MPa	103
Flexural modulus	D-790	1.3 mm/min.	MPa	3,400
Impact behavior - Falling dart	ISO 6603/1 E ₅₀	1.3 mm/min.	J	95
Light transmission	D-1003	3mm clear sheet	%	80

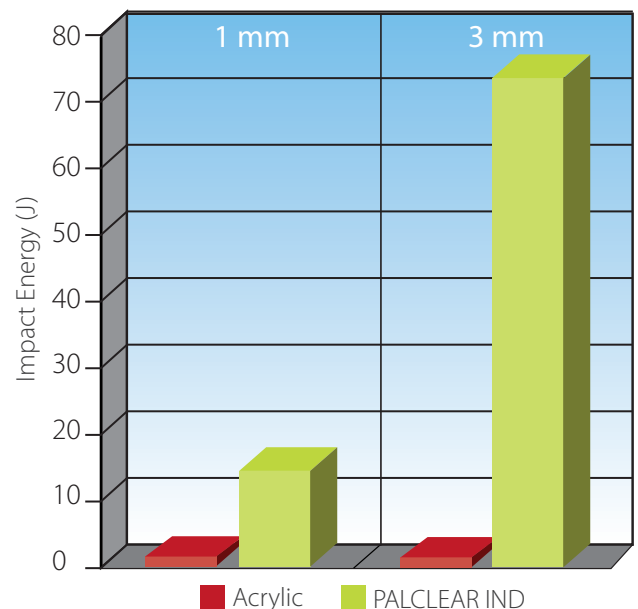
*ASTM except where noted otherwise.

**PALCLEAR IND becomes brittle below 0°C, although it will not be damaged if no impact occurs.

Impact Resistance

PALCLEAR IND offers a wider choice to fabricators for components and fabricated parts particularly when compared to the impact properties of acrylic and polystyrene sheets.

Impact Strength Comparison at 23°C
(ISO 6603/1 E50)



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