

Macroclean

FIRE
CLASSIFICATION
B-s1, d0

MACROCLEAN POLYCARBONATE

Impact-resistant
cladding system
for wall protection



Macroclean / Macroglue / Macroseal

IMPACT-RESISTANT CLADDING SYSTEM FOR WALL PROTECTION

Macroclean is a new thermoplastic cladding system solution, introduced for lining of interior walls in public spaces and hospital structures, with excellent aesthetic values. **Macroclean** is a solid sheet with an opaque, anti-reflective surface, offering high resistance to impact and wear. It provides a solution which meets hygiene standards and regulations, whilst offering significant cleaning and maintenance cost benefits.

Macroclean panels work as a protection system for rigid walls, complying with the European Fire regulation (B-s1, d0). Our **Macroglue** adhesive guarantees efficient installation of **Macroclean** panels, offering the perfect all-round solution for the intended application.



Its fire classification, B-s1, d0, guarantees minimum toxicity in case of fire, being essential for use in hospitals and centres for people with reduced mobility.

Antibacterial, hygienic and easy to clean

Non-porous material, free from bacteria, does not absorb dirt, ideal for cleanrooms, laboratories, operating rooms and in environments which require strict health controls. Both **Macroclean** and **Macroglue** are classified A+ with respect to volatile substances (VOCs).

Quick and easy installation

Our cladding system must be glued directly to the wall with **Macroglue** adhesive. This process generates no dust, thus limiting interruption of general activity during the installation. Joining **Macroclean** panels together is both effortless and seamless, using our **Macroseal** antibacterial adhesive, which blends perfectly with the surface.

Impact proof

Thanks to the impact-resistance of polycarbonate, our **Macroclean** cladding system offers protection of internal walls and helps to maintain aesthetics, even in indoor environments of high usage.

Durable

With the addition of colour from masterbatch, **Macroclean** displays minimal discolouration over time. Furthermore, it is not susceptible to humidity.

Properties

- Uncontaminated and 100% recyclable material
- Free from halogens (chlorine, bromine, etc.)
- It does not give off any odour, unlike PVC, even at high temperatures
- High impact resistance
- Good abrasion resistance
- Electrical and thermal insulation
- Resistant to humidity
- Chemical resistance
- Easily washable with soap and water
- Classification of reaction to fire B-s1, d0
- Easily machinable mechanically
- Can be cold bent
- Unalterable after installation
- Non-porous
- Wide temperature range of use (from -20° to 100° C)
- Colour from masterbatch
- Waterproof

Technical Description

Standard Size:

- 3000 x 1250 x 1,7 mm

Standard color:

- White, beige, blue and green
- Other colors on request

Main installations

- Health centers
- Hospitals and medical treatment areas
- Laboratories
- Operating rooms
- Bathrooms
- Swimming pools
- Gyms
- Schools
- Day center
- Restaurants
- Halls and corridors
- Elevators
- High-traffic and high-wear area



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Mechanical properties	Value	Unit	Normative ISO
Yield stress (50 mm/min)	63	MPa	ISO 527
Breaking stress (50 mm/min)	70	MPa	ISO 527
Elongation at yield point (50 mm/min)	6	%	ISO 527
Elongation at break (50 mm/min)	120	%	ISO 527
Elastic module (1 mm/min)	2350	MPa	ISO 527

Impact properties				
Charpy impact strength with V-notch	+23°C	75	kJ/m ²	ISO 179/1eA
	-30°C	15	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength	+23°C	70	kJ/m ²	ISO 180/1A
	-30°C	12	kJ/m ²	ISO 180/1A

Physical properties			
Density	1,2	g/cm ³	ISO 1183
Water absorption (23°C; saturation)	0,35	%	ISO 62
Humidity absorption (23°C; 50% HR)	0,15	%	ISO 62
Water vapour permeability (23°C; 85% RH; 0,1mm)	15	g/(m ² 24h)	ISO 15106-1

Thermal properties			
Coefficient of linear thermal expansion (23°C÷55°C)	0,65	10 ⁻⁴ /K	ISO 11359-2
Thermal conductivity	0,20	W/(m K)	ISO 8302
Softening temperature Vicat (50N; 120°C/h)	145-149	°C	ISO 306

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