



SPECIFICATION

Lightweight - Free standing or attached buildings.
Free standing or attached to supporting wall or as an extension to an existing building.
Clear spans 5m to 25m. Length 6m to 80m+

Aluminium

High Strength Aluminium - Quality AGS 6063 - T5 (BS1474).
Powder coated aluminium in White or Dark Green or Milk Chocolate.
Four different beam sections are available dependant on clearspan.

Stainless Steel

Quality 316 2L
Maintenance free.

Walling and roofing - Makrolife® - UV coated

Arla Makrolife® flat polycarbonate sheet offers a superior glazing solution, particularly when safety and impact resistance is of vital importance.
The criteria for safe, attractive and practical glazing in sporting facilities, schools, hospitals and shopping centres are easily met through the use of Makrolife®.
Side panels. 3mm
End panels. 4mm
Roofing material is 10mm multi wall polycarbonate.

Properties

Light transmission DIN 5036, T.3 Clear 88%
Weight is half that of the equivalent sheet of glass.
Makrolife® Density 1.20g/cm³ Glass Density 2.50g/cm³
Fire Performance BS476 : Pt7 : 1987 Value 1Y
U Values Multiwall roofing 10mm = 2.5.
Thermal Transmittance - U Value. Std Makrolife® plate = 0.21 W/mK. DIN 52612
Polycarbonate sheet is self extinguishing and rated class 1 for surface spread of flame.
Roofing Material - Multiwall wall Polycarbonate Sheets conforming to BS 476 part 7 - Class 1 spread of flames of UK Building Regulations.

UV protection

Makrolife® has a high performance UV absorption layer co-extruded on both surfaces which prevents damaging UV radiation from penetrating the sheet. UV protection means longer life, preventing yellowing, and loss of strength. It cuts out 98% of harmful UV radiation, protecting those relaxing, playing or working beneath it.

Safety

With impact resistance up to 300 x times stronger than glass, Makrolife® polycarbonate remains virtually unbreakable.

Economy

Resistance to breakage reduces the building's maintenance costs and in addition Makrolife® helps reduce energy costs through its superior thermal properties over glass.

Durability

Makrolife® has an excellent resistance to weather and atmospheric conditions and offers a 10 year warranty against yellowing for continued performance in prolonged outdoor exposure.
Makrolife® is manufactured by complying with international quality standards certified to BS EN ISO 9002.

Maintenance

High pressure water jet alone is usually enough for both interior and exterior.
For grease stains - lukewarm water with mild soap, lightly sponge with cotton wool. Rinse with clean water. Apply WD40 to door and window locks.



GENERAL

Our watchwords are quality, safety and reliability. Its patented designs are recognised as amongst the most innovative and technically up to date in the world. The architectural materials used are strong and rigid and time proven each component built to meet and exceed recognised standards.

Benefits - entertain, swim or play any time of year.
Free standing or abutting an existing wall or building.

Structure

Frame-

The patented structural standard high strength 6063 T5 aluminium beams and doors are thermo-lacquered and of course will not rust. Lightweight materials creating an extremely strong and durable building in a few days compared with traditional forms of building. The structure has been pre-assembled in the factory ensuring exact and problem-free erection. Difficult access sites do not present a problem.
Delivered and assembled on site by our factory engineers.

Sizes-

Enclosures are individually designed and range in size from 5m by 6m (16'5" x 19'8") up to 25m wide by 80m (82' x 260') or more in length and cover all size combinations between.

Side Access-

Side access window panels are moveable and lockable and by sliding them upwards into the roof gives an unimpeded access and ventilation, 1.83 (6') m to 2m (6'6") high along the sides. Side panels can be up to 2m wide. Split windows styles are available too.

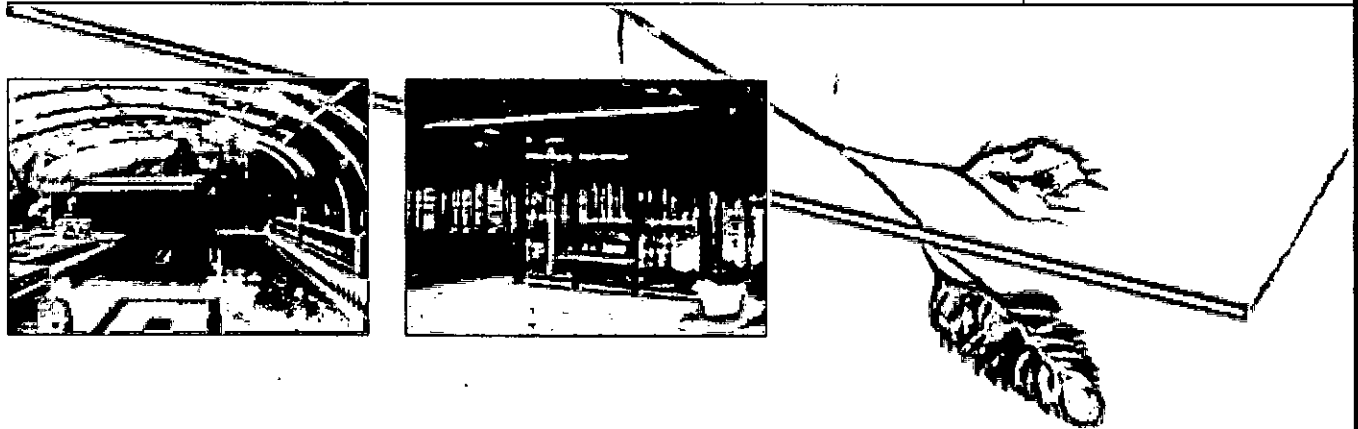
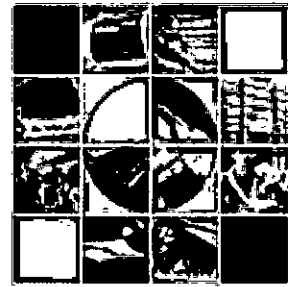
Fixed Position or Telescopic

The enclosures can be either fixed in position or are available as moving vaulted sections which can be rolled open and telescoped on tracks in good weather.

Glazing-

Unique features - Makrolite[®] polycarbonate with UV protection on both sides available in tint and clear. Roofing material is 10mm multi-wall polycarbonate.
The 10 year manufacturer's guarantee supports its legendary strength and unbeatable impact resistance, proven in the world's toughest climatic conditions. It far outperforms alternative sheet materials.

MAKROLIFE®



MAKROLIFE® is an outstanding co-extruded polycarbonate sheet with a highly protective UV-absorber on both sides. In MAKROLIFE® the high impact strength of polycarbonate has been combined with extra protection against UV-radiation and yellowing, which makes it appropriate for applications where glass is used today.

The product provides a 50% weight saving compared to glass, it also has more than twice the impact strength of PETG and more than 10 times the impact strength of high impact PMMA.

Qualities:

- Double sided extra UV protection
- First UV-PC to pass the B1 (Din 4102) test
- Superior impact strength
- Light weight compared to glass
- Good fire behaviour classification
- Easily screen printed
- Can easily be formed in curved applications
- Excellent thermoforming properties
- Usable over a wide temperature range

Application areas:

Barrel vaults, roof lights, wide span architectural glazing, bus shelters, poster protection, skylights, greenhouses, covered walkways and sport arenas.

MAKROLIFE® makes the industrial standard in applications for vending machines, lamps, nurseries, public telephones, stairs, sound-protections walls and many others.

Available in:

Colours (as COLORADO™ UV) and textured versions (TEX™ UV and ANTI-REFLEX™ UV).

Cases above:

Swimming pool area
Bus shelter

ARLA PLAST AB

Box 33

590 30 Borensberg

Sweden

Tel +46 (0)141 20 38 00

Fax +46 (0)141 414 30

Info@arlaplast.se

www.arlaplast.se

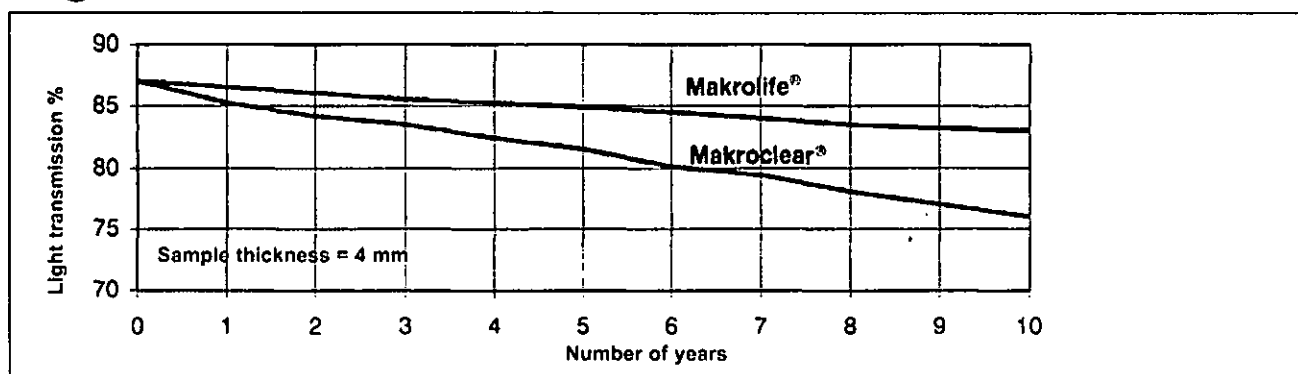


ARLA PLAST AB SWEDEN

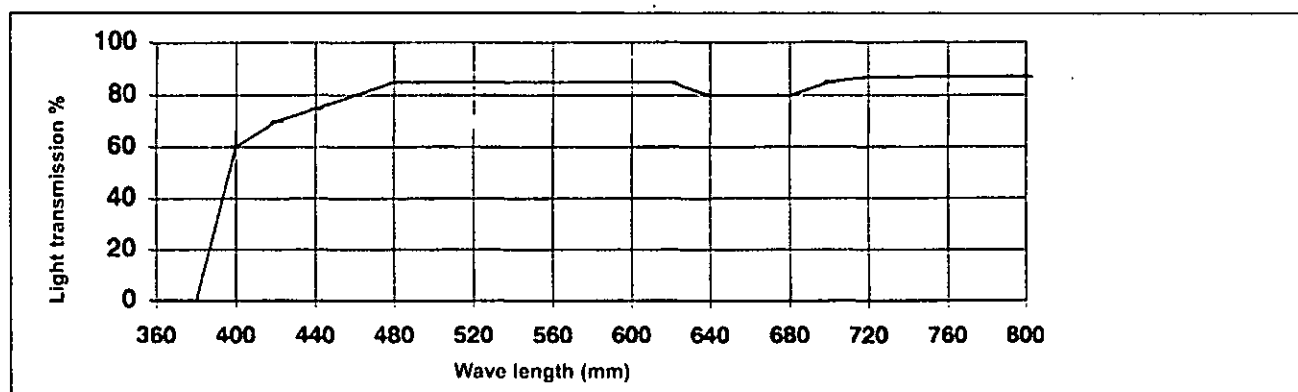
MAKROLIFE® Properties

Properties	Value	Unit	Standard
Tensile strength at yield (at break)	63 (70)	N/mm ²	ISO 527
Elongation at yield (at break)	6 (110)	%	ISO 527
Elastic modulus	2300	N/mm ²	ISO 527
Impact strength notched IZOD, +23°C	65	kJ/m ²	ISO 180/1A
Thermal conductivity	0,21	W/m, K	DIN 52612
Density	1,20	g/cm ³	ISO 1183
Linear coefficient of thermal expansion 23-80°C	0,70	10 ⁻⁴ xK ⁻¹	
Vicat temperature	>140	°C	ISO 306

Light transmission



Spectral transmission, "MAKROLIFE® 4 mm"



The above information is based upon experience and given in good faith. Due to many factors which are outside our knowledge and control, no warranty is given or is to be implied with respect to such information.

Arla sheets are produced from resins that are certified according to UL 94. Furthermore, several products have been tested according DIN 4102 (class B1 and B2), DIN 5510 (class S3, SR1 and SR 2, ST1 and ST2), BS 476 part 7 (class 1Y), NF P 92-501 (M2), CSE/75/A (class 1), CSE/RF/3/77 (class 1), UNE 23.727-90 (class M.4). A list of products that have been tested and their respective classification is presented on www.arlaplast.se. If information regarding classifications according to other standards is needed, it is often possible to retrieve information from our raw material suppliers. Please contact our technical support.



Shopping center glazing