

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

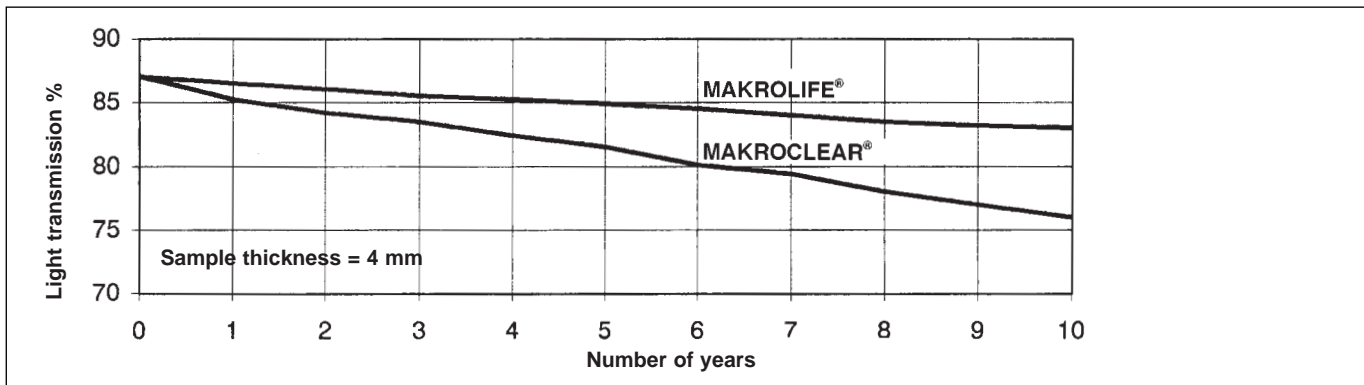
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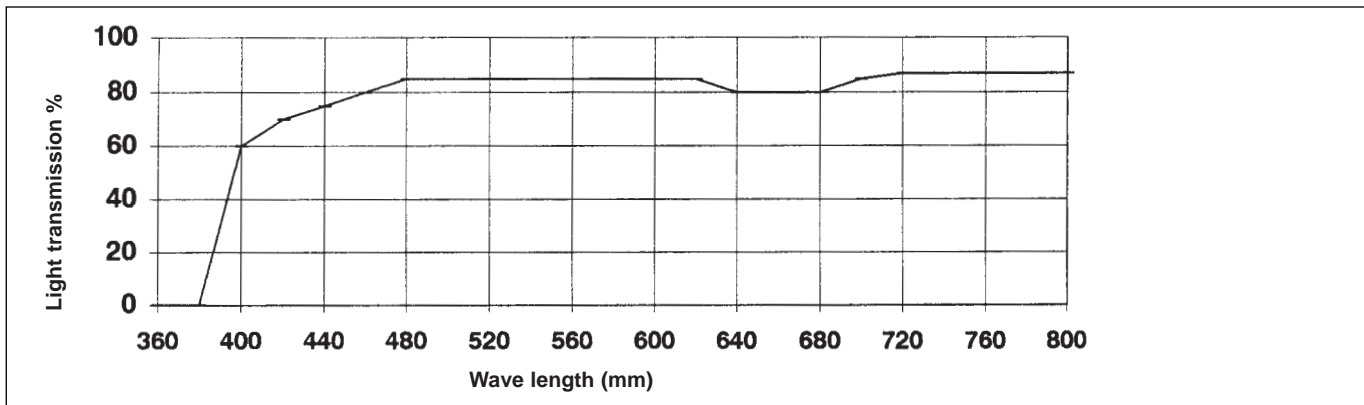
MAKROLIFE® Properties

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 to 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