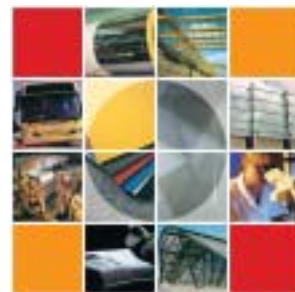


MAKROCLEAR® FA



MAKROCLEAR® FA is an extruded polycarbonate sheet made from a special resin complying with food contact regulations governed by the US Food and Drug Administration and EC Directive. Sawing and forming can be performed by using the same methods as for standard polycarbonate.

Qualities:

- Complies with food contact regulations
- Superior impact strength
- Light weight compared to glass
- Easily screen printed
- Can easily be formed into gentle curves
- Excellent thermoforming properties
- Usable over a wide temperature range

Application areas:

MAKROCLEAR® FA is the right choice for food packaging and applications where the product will come in direct contact with food, such as displays and boxes.

Available in:

Transparent

Case above:

Chocolate Mould

ARLA PLAST AB

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MAKROCLEAR® FA Properties

Property	Value	Unit	Standard
<i>Physical properties</i>			
Density	1,20	g/cm ³	ISO 1183
<i>Mechanical properties</i>			
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
Flexural modulus	2300	N/mm ²	ISO 178
Charpy unnotched impact strength +23°C	no break	kJ/m ²	ISO 179/2D
Charpy unnotched impact strength -40°C	no break	kJ/m ²	ISO 179/2D
IZOD notched impact strength +23°C	65	kJ/m ²	ISO 180/1A
IZOD notched impact strength -30°C	10	kJ/m ²	ISO 180/1A
Rockwell hardness	M70		ISO 2039-2
<i>Thermal properties</i>			
Linear coefficient of thermal expansion (23-80°C)	0,70	10 ⁻⁴ x K ⁻¹	
<i>Fire properties</i>			
Fire classification according to UL94	HB/1.14 V0/6.10		UL 94
Max. temperature glow wire test (1.0 mm)	850	°C	IEC 695-2-1
Oxygen index	25	%	ASTM D2863-77
<i>Food contact regulations (resin) ^{a)}</i>			
USA (FDA) Code of Federal Regulations, Title 21 Par. 177.1580.	Complies		
European Union EC Directive 90/128/EEC of 23.02.1990 as amended. ^{b)}	Complies		

a) It is the responsibility of the manufacturer of the finished article to check compliance with the relevant regulations.

b) For information about compliance to food contact regulations in a specific European country, please contact Arla Plastprodukter AB.

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.