



# MAKROTECH™

Arla Plast MAKROTECH™ is a range of opaque coloured polycarbonate sheets. The product is virtually unbreakable with extremely high impact resistance. The product offers high temperature performance too.

#### ALSO AVAILABLE IN:

- MAKROTECH™ CC for metallic colours
- MAKROTECH™ ECC for extra depth in metallic colours
- With stripe applied for identification in packaging industry

#### RECYCLING

Our total recycling concept (TRC), is a major advantage in today's environmentally friendly market. The TRC concept covers all types of sheets to provide you with cost saving. Off-cuts from the sheets can be used in production of new sheets by co-extruding virgin material as the top layer. Care is taken that all quality requirements are met.

#### MAKROTECH™ BENEFITS:

- Unique metallic colours
- High impact strength
- Wide temperature range

#### APPLICATION AREAS:

Indoor flat, curved and formed parts in automotive, agricultural, covers and containers.

#### DELIVERY PROGRAM:

Standard size: 1250 x 2050 mm

Max width:

- Smooth 00/00: 2050mm
- With embossing: 1700 mm

Thickness range: 1,5 – 8 mm, others upon request

Colours: standard colours and customer specific colours

Embossing: 00/00, 00/35, 00/40

## MAKROTECH™ TYPICAL PROPERTY VALUES

Property	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,20	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>			
Tensile strength at yield	60	N/mm <sup>2</sup>	ISO 527-2
Tensile elongation at yield	6	%	ISO 527-2
Tensile strength at break	50	N/mm <sup>2</sup>	ISO 527-2
Tensile elongation at break	>50	%	ISO 527-2
Elastic modulus	2200	N/mm <sup>2</sup>	ISO 527-2
Flexural modulus*	2300	N/mm <sup>2</sup>	ISO 178
Izod notched impact strength +23°C	65	kJ/m <sup>2</sup>	ISO 180/A
Izod notched impact strength -23°C	13	kJ/m <sup>2</sup>	ISO 180/A
Izod notched impact strength -30°C	11	kJ/m <sup>2</sup>	ISO 180/A
Charpy notched impact strength +23°C	62	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy notched impact strength -23°C	12	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy notched impact strength -30°C	11	kJ/m <sup>2</sup>	ISO 179-1/1eA
Rockwell hardness*	M70	R-scale	ISO 2039-2
<b>Thermal properties</b>			
Coefficient of linear thermal expansion (23-80 °C)*	70x10 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
Vicat temperature VST/B120 (0,45 N/mm <sup>2</sup> )	149	°C	ISO 306
Heat deflection temperature HDT A (1,80 N/mm <sup>2</sup> )	135	°C	ISO 75-2
<b>Fire properties</b>			
Flammability 1,6 mm*	HB	Class	UL 94

\* Value based on information given from resin supplier.

Properties reported here are typical values. Arla Plast makes no representation that the material in any particular shipment will conform exactly to the values given. 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. Detailed product specification and technical manual/information is available on request.