



# RPC™

Arla Plast RPC™ 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.

RPC is mainly extruded in black colour for thermoforming purposes. The sheet has a base regrind material which is then covered with a co-extruded top layer as in our MAKROTECH® range. Carbon black offers excellent UV absorbance which projects the material for outdoor applications. The product offers good cost savings versus performance.

**ALSO AVAILABLE IN:**

- With stripe applied for identification in packaging industry
- With a coloured co-extrusion layer
- With UV protection on top side

**RPC BENEFITS:**

- Environmental friendly with recycled core
- Good impact resistance
- Wide temperature range

**APPLICATION AREAS:**

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

**DELIVERY PROGRAM:**

Standard size: 1250 x 2050 mm

Max width: 1700 mm

Thickness range: 2 – 8 mm

Colours: Black

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

## RPC 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	50	N/mm <sup>2</sup>	ISO 527
Tensile elongation at yield	6	%	ISO 527
Tensile elongation at break	>50	%	ISO 527
Elastic modulus	2300	N/mm <sup>2</sup>	ISO 527
Flexural modulus	2300	N/mm <sup>2</sup>	ISO 178
Izod notched impact strength +23 °C	10	KJ/m <sup>2</sup>	ISO 180
Izod impact strength unnotched at +23 °C	NB		ISO 180/1U
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	132	°C	ISO 75-2

\* 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.