

COLORADO®

COLORADO® offers a wide range of extruded transparent coloured polycarbonate sheet.

The sheet is produced with vast knowledge of our production team extrusion experience.

The product is virtually unbreakable with extremely high impact resistance and offers high temperature performance.

COLORADO® provides designers, specifiers and architects with possibilities to use transparent coloured polycarbonate sheets in applications where high clarity and optical performance is required.

Arla Plast AB offer a range of standard coloured tints but also offer good colour matching service with low minimum quantities

STANDARD COLOURS:

Light Bronze 130, Grey 133, Opal 30%.

A wide range of available colours and colour matching service on request.

Excellent fire performance complying requirements to EN 13501-1 (European fire classification for building and construction). In case of fire, the sheet will melt and allow venting where heat and smoke will be let out and therefore reduce the growth of fire by flame spread.

COLORADO® BENEFITS:

- · Wide range of transparent colours
- More than 10 times the impact strength of high impact PMMA
- Easy to thermoform or cold bend into complex shapes
- · Half the weight of glass

APPLICATION AREAS:

For glazing, signs, displays, machine protection and in other applications where a high impact strength and good aesthetics are needed.

DELIVERY PROGRAM:

Standard size: 2050 x 3050 mm

Thickness range: 2 – 12 mm

Colour: Standard colours and customer specific colours

upon request

Special sizes, thicknesses, and textures on request

COLORADO® TYPICAL PROPERTY VALUES

Property	Value	Unit	Standard
Physical properties			
Density	1,2	g/cm ³	ISO 1183
Refractive index (20 °C)	1,586		ISO 489
Moisture absorption 24 h, 23 °C, 50% RH	0,15	%	ISO 62
Mechanical properties			
Tensile strength at yield (at break)	60 (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 -40 °C	NB	kJ/m²	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m²	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m²	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m²	ISO 180/1A
Thermal properties			
Coefficient of linear thermal expansion (20-70 °C)	65x10 ⁻⁶	K ⁻¹	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm²)	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm²)	142	°C	ISO 75
Vicat temperature VST/B 120	149	°C	ISO 306
Vicat temperature VST/B 50	148	°C	ISO 306
Thermal conductivity	0,20	W/m.K	ISO 8302
Electrical properties			
Volume resistivity, dry	>1014	Ω.m	IEC 62631
Surface resistivity, dry	10 ¹⁶	Ω	IEC 62631
Dielectric strength, dry	30	kV/mm	IEC 60243
Dielectric constant, dry 50 Hz	3		IEC 62631
Dielectric constant, dry 1 MHz	2,9		IEC 62631
Dissipation factor (tan δ), dry 50 Hz	0,001		IEC 62631
Dissipation factor (tan δ), dry 1 MHz	0,01		IEC 62631

Properties reported here are typical values for polycarbonate. 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.

