



# MULTICLEAR® BOX 2WALL HG

MULTICLEAR® BOX 2Wall HG is a range of extruded multiwall polycarbonate sheet specifically designed to offer increased transparency combined with solid rigidity. Resulting in cost saving by using less glazing bars for installations hence increased light transmittance.

MULTICLEAR® BOX 2Wall HG is transparent or translucent sheet with one side UV protection (also available with two sides UV protection). Standard available in clear, opal and bronze. Available in thickness 16 mm only. Knife cutting operation is used both online and offline to avoid saw dust.

MULTICLEAR® BOX 2Wall HG has a 10-year limited warranty against discolouration, loss of impact strength and light transmission due to weathering.

#### ALSO AVAILABLE:

MULTICLEAR® HAMMER FINISH  
MULTICLEAR® SOLAR CONTROL

Excellent fire performance: 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. Classification B-s1, d0 according to EN 13501-1. (Fire classification of construction products and building elements – reaction to fire.)

#### MULTICLEAR® BOX 2WALL HG BENEFITS:

- Less structural glazing bars hence increased light transmission
- Large rib distance offering greater transparency
- Good wind and snow loading capacity
- Aesthetic glazing

#### APPLICATION AREAS:


Building industry – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, car ports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions.

Agriculture – greenhouses, lorry/tractor ports and farm/barn buildings.

Packaging – boxes for lamp optics, neon signs, pallet shields and protective covers for fragile items.

Advertising – illuminated signs and panels.

# MULTICLEAR® BOX 2WALL HG TECHNICAL SPECIFICATIONS

Multiclear® Box 2Wall HG	Thickness [mm]	Rib distance [mm]	Mass per unit area [g/m <sup>2</sup> ]	U-value [W/m <sup>2</sup> *K]	Width		Standard colours			Optical properties	Min. bending radius
					1200	980	Clear	Opal	Bronze	Clear	
	16	31	3400 3600	2,8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LT 77% 75% g	n.a.

Property	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,2	g/cm <sup>3</sup>	ISO 1183
Refractive index (20 °C)	1,586		ISO 489
Moisture absorption 24 h, 23 °C, 50% RH	0,15	%	ISO 62
<b>Mechanical properties</b>			
Tensile strength at yield (at break)	63 (70)	N/mm <sup>2</sup>	ISO 527
Elongation at yield (at break)	6 (110)	%	ISO 527
Elastic modulus	>2300	N/mm <sup>2</sup>	ISO 527
Flexural modulus	>2300	N/mm <sup>2</sup>	ISO 178
Charpy unnotched impact strength -40 °C	NB	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m <sup>2</sup>	ISO 180/1A
<b>Thermal properties</b>			
Coefficient of linear thermal expansion (20-70 °C)	65x10 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
Heat deflection temperature, HDT A (1,80 N/mm <sup>2</sup> )	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm <sup>2</sup> )	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

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.