

# MULTICLEAR® BOX 3WALL

MULTICLEAR® BOX 3 WALL is an aesthetically pleasing triple wall extruded multiwall polycarbonate sheet which offers higher light transmission products with lower weight for handling and transportation.

MULTICLEAR® BOX 3 WALL is transparent and translucent sheet with one or two sides UV protection. Standard production available in thickness 16 mm in clear, opal and bronze color.

Dust free knife cutting is used in all formatting operations.

MULTICLEAR® BOX 3 WALL 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

#### MULTICLEAR® BOX 3WALL BENEFITS:

- High light transmission
- Outstanding bending radius
- One side UV protection as standard
- Light weight - simple handling and installation

#### 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 3WALL TECHNICAL SPECIFICATIONS

Multiclear® BOX 3Wall	Thickness [mm]	Rib distance [mm]	Mass per unit area [g/m <sup>2</sup> ]	U-Value [W/m <sup>2</sup> *K]	Width [mm]				UV side option	Standard Colours		
					2100	1250	1200	980		Clear	Opal	Bronze
	16	20	2500	2,3	X	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			2700						1(2)			

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.