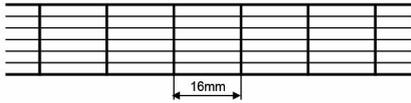


# MULTICLEAR® BOX 7 WALL



MULTICLEAR® BOX 7 WALL is a seven wall extruded multiwall polycarbonate sheet offering low U-value with excellent light transmission. The range offers high impact strength with lower weight for handling and transportation.

MULTICLEAR® BOX 7 WALL is transparent and translucent with one side UV protected sheet (also available with two side UV protection). Standard colours are clear, opal and bronze. Available in thicknesses 16 and 20 mm.

MULTICLEAR® BOX 7 WALL has a 10 year limited warranty against discolouration, loss of impact strength and light transmission due to weathering.

Knife cutting operation is used both online and offline to avoid saw dust.

#### ALSO AVAILABLE:

MULTICLEAR® HAMMER FINISH, MULTICLEAR® SOLAR CONTROL (UV protected), MULTICLEAR® RPC, MULTICLEAR ULTRA

**EXCELLENT FIRE PERFORMANCE** complying requirements to EN 13501-1 (EUROPEAN BUILDING STD). 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.

#### MULTICLEAR® BOX 7 WALL BENEFITS:

- High light transmission
- Excellent 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. Lighting/package lamp optics and neon signs boxes, pallet shields, protective covers for fragile items. Advertising illuminated signs and advertising panels. Agriculture greenhouses, lorry/tractor ports and farm/barn buildings.

## MULTICLEAR® BOX 7 WALL TECHNICAL SPECIFICATIONS

MULTICLEAR® BOX 7 WALL	Thickness mm	Step mm	Weight g/m <sup>2</sup>	K-Value W/m <sup>2</sup> K	Width mm			MULTICLEAR® BOX 7 WALL - LIGHT TRANSMISSION %		
					2100	1250	980		Clear	Opal
	16	16	2700	1,8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1(2)	64	45
	20	16	3000	1,6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1(2)	62	45

MULTICLEAR® Loading characteristics	BOX 7W 16 mm				BOX 7W 20 mm			
	Width of the sheet mm	600	625	980	1250	600	625	980
Load N/m <sup>2</sup>	Length of the sheets mm							
500	>6000	3800	3100	2450	>6000	4550	3450	2750
750	>6000	2400	2200	1900	>6000	2500	2300	2100
900	5200	2100	1950	1730	6000	2200	2050	1950
1200	2550	1800	1700	1500	2650	1850	1750	1700
1500	2100	1600	1500	1350	2200	1650	1550	1500
2000	1700	1400	1300	1200	1800	1450	1400	1350

Bending Radius mm	Box 7W 16 mm: 2800 min.	Box 7W 20 mm: 3500 min.

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 hours, 23 °C, 50% RH	0,15	%	
<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 +23 °C	NB	kJ/m <sup>2</sup>	ISO 179/2D
Charpy unnotched impact strength -40 °C	NB	kJ/m <sup>2</sup>	ISO 179/2D
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
Rockwell hardness	M70		ISO 2039-2
<b>Thermal properties</b>			
Linear coefficient of thermal expansion (23-80 °C)	0,7	10 <sup>-4</sup> x K <sup>-1</sup>	
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
Specific heat capacity, Cp	1,17	kJ/kg.K	
Thermal conductivity	0,21	W/m.K	DIN 52612

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.