

# MULTICLEAR® STRONG 6Wall

MULTICLEAR® STRONG 6Wall is a unique range of extruded multiwall polycarbonate sheets specifically designed to be low U-value product with increased stiffness, allowing cost saving and providing increased light transmittance due to less glazing bars required for installation

MULTICLEAR® STRONG 6Wall is a transparent or translucent sheet with one or two sides UV protection. Standard production available in thickness 8, 10 and 16 mm, in clear, opal and bronze color.

Dust free knife cutting is used in all formatting operations.

MULTICLEAR® STRONG 6Wall has a 10 years limited warranty against discoloration, loss of impact strength and light transmission due to weathering.

#### ALSO AVAILABLE:

MULTICLEAR® SOLAR CONTROL  
MULTICLEAR® HAMMER FINISH

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® STRONG 6Wall BENEFITS:

- High light transmission
- Outstanding bending radius
- Cross structure offering increased stiffness
- Excellent thermal insulation

#### APPLICATION AREAS:

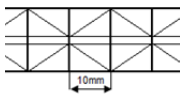
**Building industry** – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, carports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions,

**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® STRONG 6Wall TECHNICAL SPECIFICATIONS

Multiclear® STRONG 6Wall	Thickness [mm]	Rib Distance [mm]	Weight [g/m <sup>2</sup> ]	U-Value [W/m <sup>2</sup> K]	Width [mm]				UV side	Standard Colours		
					2100	1250	1200	980		Clear	Opal	Bronze
	8	10	1400	2,5	<input checked="" type="checkbox"/>	<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"/>
			1500		1(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	10	10	1500	2,2	<input checked="" type="checkbox"/>	<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"/>
			1700		1(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
	16	10	2500	1,9	<input checked="" type="checkbox"/>	<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"/>
			2600		1(2)	<input checked="" type="checkbox"/>	<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 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.