



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 colour.

Dust free knife cutting is used in all formatting operations.

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

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 tests.)

ALSO AVAILABLE:

MULTICLEAR® SOLAR CONTROL

MULTICLEAR® HAMMER FINISH

MULTICLEAR® RPC

MULTICLEAR® STRONG 6WALL BENEFITS:

- High light transmission
- Outstanding bending radius
- Cross structure offering greater stiffness
- Good thermal insulation

APPLICATION AREAS:

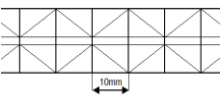
Building industry – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, car ports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions.

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® STRONG 6WALL TECHNICAL SPECIFICATIONS

Multiclear® STRONG 6Wall	Thickness [mm]	Rib distance [mm]	Mass per unit area [g/m ²]	U-value [W/m ² *K]	Width [mm]				UV side option	Standard colours		
					2100	1250	1200	980		Clear	Opal	Bronze
	8	10	1500	2,7	<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"/>
	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)			
	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)			
			2700						1(2)			

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/m ²	ISO 179/1eU
Charpy notched impact strength -30°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m ²	ISO 180/A
Izod notched impact strength -30 °C	10	kJ/m ²	ISO 180/A
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/mm ²)	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm ²)	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.