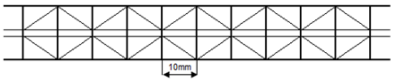
MULTICLEAR® STRONG 6Wall



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:

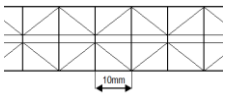
Building industry – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, car ports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions.

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/m²]	U-value [W/m²*K]	Width [mm]				UV side option	Standard colours		
					2100	1250	1200	980		Clear	Opal	Bronze
	8	10	1500	2,7	☑	☑	☑	☑	1(2)	☑	☑	☑
	10	10	1500	2,2	☑	☑	☑	☑	1(2)	☑	☑	☑
			1700						1(2)			
	16	10	2500	1,9	☑	☑	☑	☑	1(2)	☑	☑	☑
			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

Arla Plast s.r.o. • Královský Vrch 1982 • CZ 432 01 Kadaň • Czech Republic
Phone: + 420 474 698 030 • Fax: + 420 474 698 040 • E-mail: infocz@arlaplast.com • www.arlaplast.com

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