

MULTICLEAR® 11WALL

MULTICLEAR® 11Wall is an 11-wall extruded multiwall polycarbonate sheet which offers increased light transmission with acceptable light weight for an 11 layer product allowing cost saving by using less electricity for lighting, excellent thermal insulation and lower weight per/kg. Outstanding aesthetic quality replacing glass and other plastics in continuous glazing applications.

MULTICLEAR® 11Wall is a transparent and translucent sheet with one or two sides UV protection. Standard production available in thickness 25 and 32 mm in clear, opal and bronze colour.

MULTICLEAR® 11Wall has a 10-year 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® HAMMER FINISH
MULTICLEAR® SOLAR CONTROL

MULTICLEAR® 11WALL BENEFITS:

- Good light transmission
- Excellent thermal insulation
- More than 10 times the impact strength of PMMA
- More than 4 times the impact strength of PVC
- Light weight - simple handling and installation

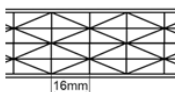
APPLICATION AREAS:

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, farm/barn buildings.

Advertising - illuminated signs and panels.

MULTICLEAR® 11WALL TECHNICAL SPECIFICATIONS

Multiclear® 11Wall	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
	25	16	3000	1,4	☑	☑	☑	☑	1(2)	☑	☑	☑
			3200						1(2)			
			3400						1(2)			
	32	16	3600	1,2	☑	☑	☑	☑	1(2)	☑	☑	☑
			3700						1(2)			
									1(2)			

Property	Value	Unit	Standard
Physical properties			
Density	1,2	g/cm³	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/mm²	ISO 527
Elongation at yield (at break)	6 (110)	%	ISO 527
Elastic modulus	>2300	N/mm²	ISO 527
Flexural modulus	>2300	N/mm²	ISO 178
Charpy unnotched impact strength -40 °C	NB	kJ/m²	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m²	ISO 179/1eA
Izod notched impact strength +23 °C	65	kJ/m²	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m²	ISO 180/1A
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/mm²)	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm²)	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	DIN 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.