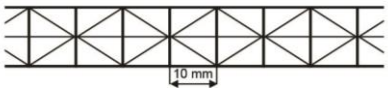
MULTICLEAR® 5X



MULTICLEAR® 5X is a range of extruded multiwall polycarbonate sheet specifically designed to offer increased stiffness allowing cost saving by using less glazing bars for installations hence increased light transmittance.

MULTICLEAR® 5X is transparent and translucent sheet with one or two sides UV protection.
Standard production available in thickness 10, 16, 20 and 25 mm in clear, opal and bronze colour.

Dust free knife cutting used in all formatting operations.

MULTICLEAR® 5X 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® 5X BENEFITS:

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

APPLICATION AREAS:

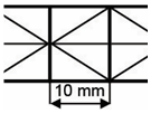
Building industry – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, car ports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions.

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® 5X TECHNICAL SPECIFICATIONS

Multiclear® 5X	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
	10	10	1500	2,5	☑	☑	☑	☑	1(2)	☑	☑	☑
			1600						1(2)			
			1700						1(2)			
	16	10	2400	2,0	☑	☑	☑	☑	1(2)	☑	☑	☑
			2500						1(2)			
			2600						1(2)			
	20	10	2800	1,8	☑	☑	☑	☑	1(2)	☑	☑	☑
			3000						1(2)			
	25	10	3200	1,6	☑	☑	☑	☑	1(2)	☑	☑	☑
			3400						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 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

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