



MULTICLEAR[®] 5X ULTRA 25/5

MULTICLEAR[®] 5X ULTRA 25/5 is an extruded five wall polycarbonate sheet designed to offer better stiffness than standard weight products (the impact strength is at quarter of the weight of glass of equivalent thickness). The sheet offers increased impact resistance by using cross structure and more material. The ribs are optimized to improve the stiffness. The system is cost saving by using less glazing bars for installations hence increased light transmittance.

MULTICLEAR[®] 5X ULTRA 25/5 is transparent and translucent with one side UV protected sheet (also available with two side UV protection). Standard colour is opal. Available in thickness 25 mm.

MULTICLEAR[®] 5X ULTRA 25/5 has a 10-year limited warranty against discolouration, loss of impact strength and light transmission due to weathering.

ALSO AVAILABLE:

MULTICLEAR[®] HAMMER FINISH
 MULTICLEAR[®] SOLAR CONTROL (UV protected)
 MULTICLEAR[®] RPC

Excellent fire performance complying requirements to EN 13501-1 (European fire classification for building and construction). 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.

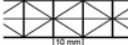
MULTICLEAR[®] 5X ULTRA 25/5 BENEFITS:

- Less structural glazing bars hence increased light transmission
- Cross structure offering greater stiffness
- High wind and snow loading capacity
- Excellent 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. Lighting/package lamp optics and neon signs boxes, pallet shields, protective covers for fragile items. Advertising illuminated signs and advertising panels. Agriculture greenhouses, lorry/tractor ports and farm/barn buildings.

MULTICLEAR® 5X ULTRA 25/5 TECHNICAL SPECIFICATIONS

Multiclear® 5X ULTRA 25/5	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
	25	10	5000	1,6	<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"/>

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 180/1A
Izod notched impact strength -30 °C	10	kJ/m ²	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/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.