

MULTICLEAR® STRONG ULTRA 25/5

MULTICLEAR® STRONG ULTRA 25/5 is an extruded 5 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 optimised to improve the stiffness. The system is cost saving by using less glazing bars for installations hence increased light transmittance.

MULTICLEAR® STRONG ULTRA 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® STRONG ULTRA 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 BUILDING STD). 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.

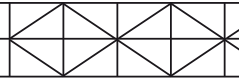
MULTICLEAR® STRONG ULTRA 25/5 BENEFITS:

- 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/packaging 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® STRONG ULTRA 25/5 TECHNICAL SPECIFICATIONS

MULTICLEAR® STRONG ULTRA 25/5	Thickness mm	Step mm	Weight g/m ²	U-Value [W/m ² .K]	Width mm				Sheet length mm	Light transmission
					Others upon request					
					2100	1250	1200	980		
	25	10	5000	1,6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1500-7000	Clear: 45 Opal: 22 SG: 30

Property	Value	Unit	Standard
Physical properties			
Density	1,2	g/cm ³	ISO 1183
Refractive index	1,586		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,15	%	
Mechanical properties			
Tensile strength at yield (break)	63 (70)	N/mm ²	ISO 527
Tensile elongation at yield (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 +23 °C	NB	kJ/m ²	ISO 179/2D
Charpy unnotched impact strength -40 °C	NB	kJ/m ²	ISO 179/2D
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
Rockwell hardness	M70		ISO 2039-2
Thermal properties			
Linear coefficient of thermal expansion (23-80 °C)	0,7	10 ⁻⁴ x K ⁻¹	
Vicat temperature VST/B 120	149	°C	ISO 306
Vicat temperature VST/B 50	148	°C	ISO 306
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
Specific heat capacity, Cp	1,17	kJ/kg.K	
Thermal conductivity	0,21	W/m.K	DIN 52612

Properties reported here are typical values. 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.