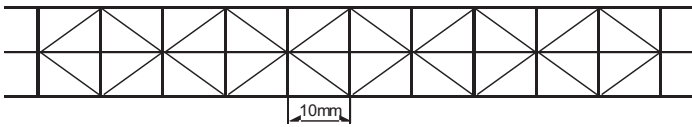


# MULTICLEAR®

## 5X



MULTICLEAR® 5X is an 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 color.

Dust free knife cutting used in all formatting operations.

MULTICLEAR® 5X has a 10 year limited warranty against discoloration, 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:

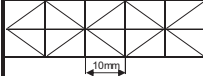
**Building** industry – roofing, cladding, sidewalls, conservatories, domes, skylights, sheds, car ports, smoke vents, swimming pool covers, suspended ceilings, glasshouses, shopping centre roofing, railway/metro station, stadia roofing and partitions.

**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/m <sup>2</sup> ]	U-value [W/m <sup>2</sup> *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)			
			2700						1(2)			
	20	10	2800	1,8	☑	☑	☑	☑	1(2)	☑	☑	☑
			3000						1(2)			
			25						10			
3400	1(2)											

Property	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,2	g/cm <sup>3</sup>	ISO 1183
Refractive index	1,586		ISO 489
Moisture absorption 24 hours, 23 °C, 50% RH	0,15	%	
<b>Mechanical properties</b>			
Tensile strength at yield (break)	63 (70)	N/mm <sup>2</sup>	ISO 527
Tensile elongation at yield (break)	6 (110)	%	ISO 527
Elastic modulus	2300	N/mm <sup>2</sup>	ISO 527
Flexural modulus	2300	N/mm <sup>2</sup>	ISO 178
Charpy unnotched impact strength +23 °C	NB	kJ/m <sup>2</sup>	ISO 179/2D
Charpy unnotched impact strength -40 °C	NB	kJ/m <sup>2</sup>	ISO 179/2D
Izod notched impact strength +23 °C	65	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength -30 °C	10	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	M70		ISO 2039-2
<b>Thermal properties</b>			
Linear coefficient of thermal expansion (23-80 °C)	0,7	10 <sup>-4</sup> x K <sup>-1</sup>	
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 <sup>2</sup> )	132	°C	ISO 75
Heat deflection temperature, HDT B (0,45 N/mm <sup>2</sup> )	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 give. 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.

