



# MULTICLEAR® HAMMER FINISH

**MULTICLEAR® HAMMER FINISH** is a textured multiwall polycarbonate sheet designed to provide a distinctive aesthetic appearance combined with high light transmission and strong light diffusion. The textured inner surface ensures even light distribution without tinting the sheet, making it suitable for applications where privacy and visual comfort are required.

MULTICLEAR® HAMMER FINISH is supplied with one-sided UV protection as standard and is also available with two-sided UV protection. Standard colours include opal, white and bronze. Other colours are available on request. The product is available in thicknesses from 8 mm upwards within the MULTICLEAR® range.

MULTICLEAR® HAMMER FINISH has a 10-year limited warranty against discolouration, loss of impact strength and light transmission due to weathering. Manufactured under controlled production conditions to ensure consistent product quality.

#### **Fire performance:**

Classified B-s1, d0 according to EN 13501-1. The material is suitable for applications where reaction to fire classification is required.

#### **ALSO AVAILABLE:**

MULTICLEAR® HAMMER FINISH is available for the whole MULTICLEAR® range.

#### **MULTICLEAR® HAMMER FINISH BENEFITS:**

- High light transmission with effective light diffusion
- Excellent bending radius
- One-sided UV protection as standard
- Lightweight – easy handling and installation

#### **APPLICATION AREAS:**

Applications where enhanced aesthetics and light diffusion are required, including architectural glazing and privacy solutions.

## Polycarbonate material properties

Property	Value	Unit	Standard
<b>Physical properties</b>			
Density	1,2	g/cm <sup>3</sup>	ISO 1183
Refractive index (20 °C)	1,586		ISO 489
Moisture absorption 24 h, 23 °C, 50% RH	0,15	%	ISO 62
<b>Mechanical properties</b>			
Tensile strength at yield (at break)	63 (70)	N/mm <sup>2</sup>	ISO 527
Elongation at yield (at 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 -40 °C	NB	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength -30 °C	11	kJ/m <sup>2</sup>	ISO 179/1eA
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
<b>Thermal properties</b>			
Coefficient of linear thermal expansion (23–80 °C)	65x10 <sup>-6</sup>	K <sup>-1</sup>	ISO 11359-2
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
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.