# MULTICLEAR® HAMMER FINISH

MULTICLEAR® HAMMER FINISH is a textured multiwall polycarbonate sheet which has special aesthetic appearance. The product has been designed to provide an alternative to architects or specifiers who would like to maintain the light transmission whilst allowing maximum diffusion of light without tinting the product. The spread of light is even and the surface is textured on the inner layer. Light diffusion and transmission are much better than standard tinted products. Good cleanability and appearance with light diffusion and diffraction hides dirt or marks on the sheet.

MULTICLEAR® HAMMER FINISH has one side UV protected sheet as standard (also available with two side UV protection). Standard colours are opal, white and bronze. Other colours are available. Thicknesses from 8 mm upwards for the whole MULTICLEAR® range.

MULTICLEAR® HAMMER FINISH has a 10 year limited warranty against discolouration, loss of impact strength and light transmission due to weathering.

**ALSO AVAILABLE:**
MULTICLEAR® HAMMER FINISH is available for the whole MULTICLEAR® range.

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® HAMMER FINISH BENEFITS:

- High light transmission
- Excellent bending radius
- One side UV protection as standard
- Light weight - simple handling and installation

## APPLICATION AREAS:

Where aesthetics are required and privacy is needed.

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# MULTICLEAR® HAMMER FINISH TECHNICAL SPECIFICATIONS

| 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 hours, 23 °C, 50% RH | 0,15 | % | |
| **Mechanical properties** | | | |
| Tensile strength at yield (at break) | 63 (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 +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 | $10^{-4} \times K^{-1}$ | |
| 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 |
| Specific heat capacity, Cp | 1,17 | kJ/kg.K | |
| Thermal conductivity | 0,20 | W/m.K | DIN 8302 |



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