



POLYCARBONATE
SOLID SHEETS



Macrolux® Solid compact sheets are the ideal solution in fields of application where impact resistance and excellent light transmission are essential: glazing, parapets, canopies, skylights, curved roofing systems, signage in general, neon signs, road signs, noise barriers.

Macrolux® Solid sheets come in thicknesses ranging from 2 mm to 15 mm, in a choice of translucent and opaque colors.

Macrolux® Solid No UV

Macrolux® Solid No UV sheets are monolithic polycarbonate sheets with no UV protection. They can be used in any application that is not going to be exposed to direct sunlight, such as unbreakable containers, ballot boxes, guards for industrial machinery, internal partitions.

Applications

- Internal partitions
- Internal protections
- Machinery guards
- Industry

NO UV PROTECTION



Macrolux® Solid XL

Macrolux® Solid XL sheets are monolithic polycarbonate sheets with UV protection on only one side. Ideal for applications where just one side of the sheet will be directly exposed to the harmful effects of solar UV rays.

Applications

- Skylights
- Glazing
- Opening frames
- External partitions
- Noise barriers
- Safety glazing
- Parapets
- Canopies

UV PROTECTION



Macrolux® Solid 2XL

Macrolux® Solid 2XL sheets are monolithic polycarbonate sheets with dual UV protection. They are used in all applications where the sheet is exposed to the harmful effects of direct sunlight. The co-extruded protection on both surfaces means cutting is optimized, the possibility of incorrect assembly is reduced to a minimum and lasting stability is ensured when it comes to both optical and mechanical properties. This product's features make it unique in delivering superior performance in terms of: transparency, impact resistance, mechanical strength, machinability and adaptability to a wide range of solutions, in addition to retaining exceptional chemical and physical stability. Ideal for applications in which both of the sheet's sides will be exposed to the sunlight.

Applications

- Skylights
- Glazing
- Opening frames
- External partitions
- Noise barriers
- Safety glazing
- Parapets
- Canopies

UV PROTECTION



Macrolux® Solid Anti Glare

Macrolux® Solid Anti Glare monolithic polycarbonate sheets prevent the light from reflecting on the panels, and depending on the application, will increase its clarity, facilitate its reading and provide safety.

Applications

- Facades
- Glazing
- Signage
- Billboards
- Screen Protectors
- Lenses

Macrolux® Solid 100% Opaque Black

Macrolux® Solid Opaque Black monolithic polycarbonate sheets are suited for applications where light deprivation is required while maintaining a superior resistance for the toughest environments.

Applications

- Structures requiring complete light deprivation and privacy.

Macrolux® Solid AR

Macrolux Solid AR (Abrasion-Resistant) monolithic polycarbonate sheets combine the exceptional impact strength of the polycarbonate with enhance surface hardness. These sheets feature a special hard-coat layer that significantly improves resistance to scratches, wear, and surface damage, while maintaining excellent clarity and light transmission. 7 year warranty against coating failure applies when the abrasion resistant surface treatment exhibits delamination from the substrate sheet, which is visibly noticeable without the aid of instruments and is not the result of use from any adhesive or bonded layer being removed from the sheet, post installation.

Applications

- Safety Shields
- Protective and Security Glazing for public spaces
- Transparent Barriers where visibility and safety are critical
- Vehicle Windows
- Instrument Covers
- Interior Partitions
- Storefront Protection



Product range

| PRODUCT RANGE | | | | | | | |
|--------------------------|------------------|---------------|----------------|------------------|----------------|------------------|---------------|
| Thickness | 2mm (3/32") | 3mm (1/8") | 4mm (5/32") | 4.5mm (3/16") | 5mm (3/16") | 5.5mm (7/32") | 6mm (1/4") |
| Weight (lb/ft2) | 0.49 | 0.74 | 0.98 | 1.10 | 1.23 | 1.35 | 1.47 |
| Weight (g/m2) | 2400 | 3600 | 4800 | 5400 | 6000 | 6600 | 7200 |
| Width (in) | 48", 72", 80.71" | | | | | | |
| Length (in) | 48" – 240" | | | | | | |
| U Value (Wm2k) | 5.6 | 5.4 | 5.3 | 5.2 | 5.1 | 5.1 | 5.0 |
| Sound Reduction dB | N/A | 26 | 27 | 27 | 28 | 28 | 29 |
| Minimum bend radius (in) | 12 | 18 | 24 | 27 | 30 | 33 | 35 |
| Light transmission (%) | | | | | | | |
| Clear | 89 | 88 | 87 | 87 | 87 | 86 | 86 |
| Opal | 68 | 56 | 48 | 45 | 42 | 39 | 36 |
| Bronze | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| Smoke gray | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Dark smoke gray | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Green | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Opaque white | 54 | 42 | 34 | 31 | 28 | 25 | 22 |
| Black | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| PRODUCT RANGE | | | | | | | |
|--------------------------|------------------|-----------------|-----------------|------------------|------------------|------------------|-----------------|
| Thickness | 8mm (5/16") | 9mm (11/32") | 9.5mm (3/8") | 10mm (13/32") | 12mm (15/32") | 12.7mm (1/2") | 15mm (7/12") |
| Weight (lb/ft2) | 1.96 | 2.21 | 2.33 | 2.45 | 2.94 | 3.11 | 3.68 |
| Weight (g/m2) | 9600 | 10800 | 11400 | 12000 | 14400 | 15240 | 18000 |
| Width (in) | 48", 72", 80.71" | | | | | | |
| Length (in) | 48" – 240" | | | | | | |
| U Value (Wm2k) | 4.8 | 4.6 | 4.6 | 4.5 | 4.3 | 4.3 | 4.1 |
| Sound Reduction dB | 31 | 32 | 32 | 32 | 32 | 32 | 33 |
| Minimum bend radius (in) | 47 | 53 | 56 | 59 | 71 | 75 | N/A |
| Light transmission (%) | | | | | | | |
| Clear | 85 | 84 | 84 | 83 | 81 | 81 | 78 |
| Opal | 28 | 25 | 23 | 23 | 14 | 12 | 10 |
| Bronze | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| Smoke gray | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Dark smoke gray | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Green | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Opaque white | 16 | 12 | 10 | 8 | 1 | N/A | N/A |
| Black | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

*Contact your sales representative for information regarding the availability of other colors or thicknesses

FLAMMABILITY

| | |
|-------------|--|
| ASTM D 635 | C1 ; C2 |
| ASTM D 1929 | Self Ignition 1022 °F Flash Ignition 932 °F |
| UL 94 | Class in 0.118" V-1 Class in 0.354" V-0 |

