Macrolux® Solid

POLYCARBONATE
SOLID SHEETS

Macrolux®

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®

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

Macrolux® CANADA

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