



UV PROTECTED FLAT POLYCARBONATE SHEET

Marlon FSX Longlife superior glazing material features a co-extruded UV protection to both sides of the sheet which prevents damaging UV radiation from penetrating the sheet. As a result Marlon FSX is ideal for use in some of the world's toughest climatic conditions as its UV protection leads to longer sheet life expectancy, prevents yellowing and guards against loss of strength. It also cuts out 98% of the harmful UV radiation to protect those working or playing beneath it. Marlon FSX is ideal for outdoor use such as architectural rooflights, vertical glazing and specialist glazing applications.



marlon fsx
LONGLIFE



OPTIONS

- Thicknesses: 2-12mm
- Tints: Clear, Bronze, Green, Blue, Opal, Grey
- Specials: Special transparent, translucent and opaque options are available on request
- Textures: Embossed
- Protective Coatings: Double sided UV IR Heat Block, Condensation Control

MAIN BENEFITS

- Legendary strength 200 greater than glass, it's virtually unbreakable
- Weatherable and UV resistant
- Lightweight, less than half the weight of glass
- Enhanced protection against the effects of weathering and UV radiation
- Easy to handle, install and clean
- Design flexibility
- High natural light transmission
- Superb optical clarity
- Thermally insulating
- Easy to thermoform, cold curve and router
- Fire resistant
- Durable
- Chemical resistant
- Limited 10 year warranty

APPLICATIONS

- Rooflights and glazing
- Curved rooflights
- Covered walkways
- Sunrooms
- Architectural roofing
- Exterior signage
- Industrial and architectural applications which require weather and UV protection



PRODUCT RANGE	
PRODUCT	PRODUCT DESCRIPTION
Marlon FS	Flat Sheet Polycarbonate
Marlon FS Textured	Clear Embossed Flat Sheet Polycarbonate
Marlon FSX Longlife	Flat Sheet Polycarbonate with UV Protective Coating (on one or both sides)
Marlon FSX Textured	Clear Embossed Flat Sheet Polycarbonate with UV Protective Coating (on one or both sides)
Marlon FS Hard	Flat Sheet Polycarbonate with Abrasion and Chemical Resistant Coating (one or both sides)

STANDARD RANGE		
PRODUCT	SHEET SIZE (mm)	SHEET THICKNESS (mm)
Marlon FSX Longlife	1220 x 2440	3, 4, 6
	2050 x 1250	3, 6
	2050 x 3050	2, 3, 4, 5, 6, 8, 10, 12
	2050 x 6150	3, 4, 5, 6
Marlon FSX Textured	2050 x 3050	3, 4, 6

PHYSICAL PROPERTIES				
PROPERTIES		TEST METHOD	VALUE	UNITS
Physical Properties	Density	DIN 53479	1.2	g/cm ³
	Water Absorption in Water Equilibrium, 23°C	DIN 53495:A	0.35	%
	Water Permeability	DIN 53122	<2.28	g/cm ³
Mechanical Properties	Tensile Strength at Yield	DIN 53455	>60	MPa
	Tensile Strength at Break	DIN 53455	>70	MPa
	Tensile Modulus	DIN 53457	2300	MPa
	Impact Strength @ 23°C (notched Charpy)	DIN 53453	50	kJ/m ²
Optical Properties	Light Transmission 3mm	DIN 5036	87-91	%
	Refractive Index	DIN 53491	1.586	
Thermal Properties	Coefficient of Thermal Expansion	DIN 53752	68	m/m.K X 10 ⁻⁶
	Thermal Conductivity	DIN 52612	0.2	W/m.K
	Maximum Continuous Service Temperature		>100	°C



FIRE PERFORMANCE			
COUNTRY	THICKNESS (mm)	TEST METHOD	CLASSIFICATION
EU	2-5	EN 13501-1	Bs1-d0

WARRANTY



Marlon polycarbonate is also available in a range of multiwall, corrugated and corrugated multiwall sheet options. For further details please visit the website.



EPSE