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marlon fs

Flat polycarbonate sheet

MARLON FS FLAT POLYCARBONATE SHEET OFFERS A UNIQUE COMBINATION OF MATERIAL PROPERTIES THAT MAKES IT SUPERIOR TO OTHER THERMOPLASTIC MATERIALS OR GLASS, MAKING IT THE IDEAL PRODUCT FOR ROOFING, GLAZING AND FABRICATION.

It provides unbeatable impact resistance, 200 times stronger than glass, providing protection against breakage and shattering. It easily withstands a blow of a hammer, hence it is extremely suitable for use in safety glazing applications, in vandal prone areas or in applications which require enhanced shatter resistance protective screening.



Marlon FS provides high impact resistance without compromising light transparency as this is the same as glass. Yet at only half the weight, it's easier to handle and install and remains flexible enough to be thermoformed, cold bent or fabricated offering brilliant design flexibility.

Marlon FS flat polycarbonate protects against damaging UV radiation as it offers a co-extruded UV protective layer on both sides of the sheet. As a result it can be used in the toughest climate conditions with enhanced protection against the effects of weathering and UV radiation, increasing sheet life expectancy and durability.

Marlon FS is available in a range of clear, translucent, opal, embossed and colour tinted options that offer different levels of light transmission and light diffusion. The embossed finish prevents glare due to the uniform dispersion of light over a large area, obscures views for added privacy and reduces visibility of scratches.











Material benefits



HIGH IMPACT RESISTANCE & SECURITY

Marlon FS flat polycarbonate sheet is a superior glazing solution particularly where safety and impact resistance is of importance. It is shatter resistant and is ideal for areas where high performance and reliability are essential.

In addition Marlon FS Hard contains an innovative protective coating that has been specially formulated to enhance abrasion and chemical resistance.



- · Legendary strength 200 times greater than glass it is virtually unbreakable
- Superior toughness to protect those areas where high performance and reliability are essential
- · High natural light transmission without compromising strength
- · Hard coated options provide advanced abrasion resistance protecting against vandalism and graffiti
- · Increased resistance to chemicals



UV PROTECTION & WEATHERABILITY

Marlon FS is available with a high performance longlife UV absorption layer co-extruded on both sides of the sheet. This layer prevents UV rays from penetrating the sheet, protecting people by cutting out 98% of the damaging UV radiation.

It also protects the sheet against the longterm effects of UV weathering making it the ideal material for external use, even in extreme weather conditions as the sheet retains it strength and clarity for longer.



- Protects people against harmful **UV** radiation
- Enhanced sheet life expectancy: prevents against yellowing, guards against loss of strength and light transmission
- Ideal product for external use in the toughest climate conditions



Material benefits

EXCELLENT LIGHT TRANSMISSION & SOLAR CONTROL

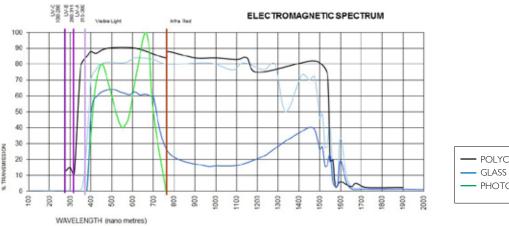
Marlon FS flat polycarbonate is available in a range of tints, colours and finishes that offer different levels of light transmission and light diffusion depending on the designer or specifier's requirements.

Clear sheet provides high optical clarity, making it the ideal glazing option for those applications that require high levels of light transmission. Depending on sheet thickness, clear Marlon FS offers exceptional light transmissions of between 80% and 92%.

Marlon FS is also available in tinted options including bronze, opal, green, blue and grey offering varying degrees of solar control, resulting in cooler internal environments. Whilst solar transmission is reduced, the sheet continues to transmit free natural light, reducing the need for artificial light, helping reduce energy cost and associated CO_2 emissions.



ELECTROMAGNETIC SPECTRUM



POLYCARBONATEGLASSPHOTOSYNTHESIS

EXCELLENT FIRE PERFORMANCE

The fire performance of Marlon FS/FSX has been independently tested. For the most up to date certifications please contact the technical department.





Material benefits



LIGHTWEIGHT & EASY TO INSTALL

The weight of Marlon FS flat polycarbonate is only half that of plate glass, making handling and installation ultimately more convenient. The strength and rigidity of Marlon FS, FSX and FS Hard enhance the spanning capability, making the sheet self-supporting, resulting in reduced requirements for support structures and increased resource efficiency. The material is extremely practical and can be cut on site to the required shape or size, minimizing waste.

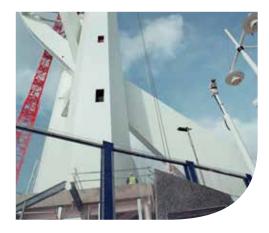
Marlon FSX features UV protection on both sides of the sheet which can help reduce both installation time and unnecessary losses due to incorrect installations.



DESIGN FLEXIBILITY

Marlon FS flat polycarbonate sheet provides excellent design flexibility. It can be cut, cold curved or thermoformed, without losing impact strength or durability, enabling the designer to create interesting glazing solutions for a bright naturally lit interior environment. It is the ideal glazing solution for covered walkways, canopies, skylights, domes, bus shelters and train windows.

In addition, Marlon FS flat polycarbonate can be screen printed directly and the smooth and even surface makes it ideal for vinyl adhesion. It has a great bonding compatibility and its resistance to knocks and scratches makes it perfect for use in high traffic areas and applications including signs, point of sale and store fixtures.



WARRANTY

Marlon FSX carries a limited 10 year warranty relating to breakage and light transmission. Marlon FS Hard carries a limited 10 year warranty relating to breakage and a limited 5 year warranty for light transmission and coating. For further information, contact the technical department.









marlon fs

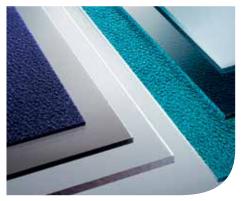
FLAT POLYCARBONATE SHEET

Marlon FS is a premium quality extruded flat polycarbonate sheet that is characterised by high impact resistance, excellent strength to weight ratio, optical clarity, light transmission, durability, design flexibility, thermal insulation and fire resistance.

Marlon flat polycarbonate sheet provides a superior glazing solution to that of other materials. It is available in clear for maximum light transmission, clear embossed and a range of tints including bronze, green, blue, opal and grey which offer additional solar control.

Colours and tints:	Clear, Opal, Bronze and specials* including Green, Blue & Grey
Widths:	Widths up to 2050mm
Thicknesses:	0.75, 1, 1.5, 2, 3, 4, 5, 6, 8, 10, 12 & 15*mm
Options*:	Embossed texture, single sided UV protection, Strong Adhesion Film
Specials*:	Special transparent, translucent & opaque options are available on request
Sheet weight:	3.6kg/m² (3mm)
U-value:	5.41 W/m ² °K (3mm)

^{*}Subject to request. Minimum order quantities may apply. Please contact Brett Martin for further information.











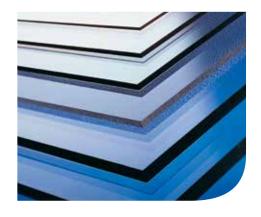


UV PROTECTED FLAT POLYCARBONATE SHEET

Marlon FSX Longlife features a co-extruded UV protection on both sides of the sheet cutting out 98% of the harmful UV radiation, making it the ideal product for use in some of the worlds' toughest climate conditions. The UV protective layer enables longer sheet life expectancy, prevents yellowing and guards against loss of strength. Combined with high impact and chemical resistance, light weight and high light transmission, Marlon FSX is the superior glazing material for architectural rooflights, vertical glazing and specialist glazing applications.

Colours and tints:	Clear, Opal, Bronze and specials* including Green, Blue & Grey	
Widths:	Widths up to 2050mm	
Thicknesses:	0.75, I, I.5, 2, 3, 4, 5, 6, 8, I0, I2 & I5*mm	
Options*:	Embossed texture, Strong Adhesion Film	
Specials*:	Special transparent, translucent & opaque options are available on request	
Sheet weight:	3.6kg/m² (3mm)	
U-value:	5.41 W/m ² °K (3mm)	

^{*}Subject to request. Minimum order quantities may apply. Please contact Brett Martin for further information.













TYPICAL APPLICATIONS

- Machine protection
- Tanks
- High pressure applications around machine engineering
- Applications where high strength impact is required



STRONG ADHESIVE FILM (SAF)

Film Colour:	Transparent
Film Width:	2050mm
Thicknesses:	For use on 2, 3, 4, 5, 6, 8, 10, 12 & 15*mm
Sheet Range:	For use on Marlon FS & Marlon FSX Longlife

*Subject to request. Minimum order quantities may apply. Please contact Brett Martin for further information.

Strong Adhesion Film

A Strong Adhesion Film (SAF) is available for the Marlon FS and Marlon FSX polycarbonate product ranges, specifically aimed at high-end engineering and fabrication projects that require extra protection during repeated processing, including drilling, 3D milling, warm & cold bending, thermoforming and cutting.

The polycarbonate sheets that are used for these heavy fabrication projects, often go through different or aggressive mechanical processes before the end product is made. SAF ensures that our polycarbonate sheet withstands these rigorous fabrication processes and protects the surface from scratching and abrasion at all times.

ULTIMATE SHEET PROTECTION

SAF is a durable and much heavier film that provides outstanding surface protection particularly for the thicker range polycarbonate sheets (5-15mm) that can be more difficult to handle and that have more potential to score during handling, fabrication and storage. The film is applied to both sides of the sheets, ensuring maximum protection.

HIGH ADHESION LEVEL

Offering an adhesion level that is three times higher than standard film, SAF remains in place and intact during fabrication. It maintains its adhesion level and offers sufficient tack for reapplication in case the film needs to be peeled back. The film offers a good joggability and is easy to remove, even after thermoforming, without leaving residue.

SAF is glue-free, enabling the polycarbonate sheets to be used for warm bending and shallow thermoforming. In addition it is particularly suitable for cutting, cold bending and digital printing. It has a clear finish so the product remains visible.

Combined with the benefits of SAF, the Marlon FS and Marlon FSX Longlife polycarbonate ranges that provide high impact resistance at only half the weight of glass, high natural light transmission, optical clarity and abrasion resistance now offer the ideal choice for high end mechanical engineering projects.

BENEFITS

- High adhesion level, 3 times higher than standard range
- · Stays on during fabrication
- Ultimate sheet protection
- Good joggability
- · Increased protection during heavy fabrication
- Glue-free, for use in warm bending and thermoforming
- · Double sided film protects both sides















RESISTANCE

IMPACT RESISTANCE Marlon polycarbonate flat sheet carries different

limited warranties within the product range. Please contact the technical department for further information.

ABRASION RESISTANCE (ASTM D 1003)

MATERIAL	CYCLES	HAZE CHANGE (%)
Uncoated	100	29.5
Hard coated	100	3 - 6
	500	<12
	1000	<20



ABRASION RESISTANT FLAT POLYCARBONATE SHEET

Marlon FS Hard is an extruded polycarbonate flat sheet combined with an abrasion and chemical resistant coating. The highly resilient and abrasion resistant surface coating resists marks and scratches, vandalism, graffiti and physical attack and also withstands contact from a wide range of cleaning agents, organic solvents and corrosive elements.

Marlon FS Hard offers a superior toughness for those areas where high performance and reliability are essential whilst providing high natural light transmission. Combined with its shatter and splinter resistance it is much safer than glass, making it the ideal safety glazing solution for high traffic areas including bus stops, traffic signage, commercial glazing, schools and other public and commercial areas.

Colours and tints:	Clear and specials* including Opal, Bronze, Green, Blue & Grey	
Widths:	Widths up to 2050mm	
Thicknesses:	3, 4, 5, 6, 8, 10, 12 & 15*mm	
Options*:	Single or Double sided UV protection**	
Specials*:	Special transparent, translucent & opaque options are available on request	
Sheet weight:	3.6kg/m ² (3mm)	
U-value:	5.41 W/m ² °K (3mm)	

^{*}Subject to request. Minimum order quantities may apply.

^{**}Minimum order quantities apply to one side UV protection. Please contact Brett Martin for further information.



Product Options

Marlon flat polycarbonate is available in a range of clear, translucent, opal and colour tinted options that offer different levels of light transmission, light diffusion and solar radiation. It is also available in an embossed finish to prevent glare, obscure views for added privacy or to reduce the visibility of scratches.

COLOUR / TINT OPTIONS

COLOUR/	DESCRIPTION	LIGHT	PRODUCT
TINT	DESCRIPTION	Transmission	INODUCT
Clear	Similar light transmission to glass, between 90 - 92% natural daylight. Ideal for architectural and vertical glazing projects and safety and security applications that require high levels of transparency.	High	
Bronze	Transmits between 50% - 53% light. Ideal for those projects that don't need complete transparency but still require visible light.	Medium	
Opal	Transmits 35%. Ideal for those projects that don't need complete transparency but still require visible light.	Medium	
Embossed	Embossed finish prevents glare due to the uniform dispersion of light over a large area. It obscures the view for added privacy and reduces visibility of scratches. All colours can be provided with an embossed finish.	Varies by tint	
Diamond Embossed*	Offers a deeper, stronger and more uniform prismatic pattern than standard embossed finish, especially designed to provide excellent light diffusion without compromising impact strength. Available in Clear, Bronze and Blue it can also be used for added privacy.	Varies by tint	

^{*}Subject to request. Minimum order quantities may apply. Please contact Brett Martin for further information.

PRODUCT RANGE

PRODUCT	product description
Marlon FS	Flat sheet polycarbonate
Marlon FSX Longlife	Flat sheet polycarbonate with UV Protective Coating on 2 sides
Marlon FS Hard	Flat sheet polycarbonate with Abrasion and Chemical Resistance Coating on 1 or 2 sides

STANDARD DIMENSIONS*

PRODUCT	SHEET SIZE (mm)	sheet thickness
Marlon FS	1220 × 2440 1250 × 2500 2050 × 3050	3, 4, 5, 6 0.75, 1, 1.5 2, 3, 4, 5, 6, 8, 10, 12
Marlon FSX Longlife	1220 × 2440 2050 × 3050 2050 × 6110	3, 4, 5, 6 2, 3, 4, 5, 6, 8, 10, 12, 15 2, 3, 4, 5, 6
Marlon FS Hard	2000 × 3000	3, 4, 5, 6, 8, 10, 12

Standard dimensions on offer. Other sheet size and thickness combinations are subject to request. Minimum order quantities may apply.



Applications

Marlon FS polycarbonate flat sheet offers solutions for a wide range of applications.

SAFETY & SECURITY



It can be used for:

Protective Visors

Security Glazing

Prison Windows

Machine Guards

Vending Equipment

Shields for Police

& Security Forces

Train Windows

Guard Rails

Bus Shelters

Clean Rooms



CONSTRUCTION / GLAZING



It can be used for:

Architectural Roofing

Sunrooms

Covered Walkways

& Canopies

Vertical Glazing

Protective Screens

Sound Barriers

Interior Partitions

Skylights

Greenhouses

Car Ports



Applications

Marlon FS polycarbonate flat sheet is an ideal substrate for display or fabrication.

PRINT & DISPLAY



It can be used for:
Displays
Signage
Illuminated Signage
Poster Covers
Light Fixtures
POS



FABRICATION



It can be used for:
Rooflights
Walkways
Visors
Vending Equipment
Riot Shields
Moulded Items









SERVICE TEMPERATURE

STORAGE & HANDLING

Marlon FS, FSX and FS Hard sheets should be stacked horizontally, preferably on a continuous non-abrasive, flat, dry surface; on suitably constructed pallets or timber bearers at least 100mm wide spaced at intervals not exceeding 500mm. Stack heights should not exceed I metre. Sheets of differing length should not be placed on the same stack. Always store indoors where possible. If storage outdoors cannot be avoided then, particularly in the case of on-site storage while building

CUTTING / SAWING

Clearance Angle	20 - 30°	20 - 30°	20 - 25°
Rake Angle	15°	0 - 5°	0 - 5°
Cutting Speed	1800 - 2400m/min	600 - 1000m/min	100 - 500m/min
Feed Speed	19 - 25m/min	19 - 25m/min	0.1 - 0.5mm/rev
Tooth Spacing	2 - 5mm	1.5 - 2.5mm	-

DRILLING

Clearance Angle	5 - 8°
Tip Angle	90 - 130°
Helix Angle	Ca 30°
Rake Angle	3 - 5°
Cutting Speed	0.1 - 0.5mm/rpm
Drill Tip Speed	10 - 60m/min

ROUTERING

It is easy to router either with hand held or CNC machines. Marlon FS can be machined on conventional milling machines with standard high speed tools. Notches adversely affect the mechanical properties of polycarbonate and should be avoided as these lead to cracking at a later stage. It is important that the part to be machined is securely held to prevent any vibration which would lead to a poor finish.

6-12mm diameter or less	Ca 24000 rpm
> 12mm	Ca 18000 rpm

COLD CURVING

2	300					
3	450					
4	600					
5	750					
6	900					
8	1200					
10	1500					
12	1800					
15	2250					



HOT LINE BENDING

THERMOFORMING

Before thermoforming, remove masking films and pre-dry at 120°C to remove absorbed moisture. Air circulation ovens with accurate temperature control are most efficient; air must circulate between sheets. Sheet age and storage conditions determine drying time. Dry storage can reduce pre-drying time in oven by up to one third; some experimentation is usually necessary. As moisture re-absorption starts when the dried sheet temperature falls below 100°C, thermoforming should be performed immediately after drying.

NB. Marlon FS Hard is NOT recommended for thermoforming

Sheet Thickness (mm)	Drying Time * at 120° (hr)					
0.75	I					
I	I					
1.5	2					
2	4					
3	8					
4	13					
5	18					
6	24					
8	28					
10	30					
12	33					
15	37					

VACUUM FORMING

Components that are relatively simple and shallow in form are thermoformable from sheet heated to an elastic state. Most industrial press and vacuum formers for thermoplastics are suitable. Best results are achievable from machines that controllably heat both sides of the sheet. Large area panels and thick panels need some air pressure support during heating to avoid sag. Male moulds are suitable for vacuum forming, female moulds for both vacuum and pressure forming. The following points should be taken into account when vacuum forming:

- Pre-drying is essential, remove film prior to drying.Sheets should be mounted vertically and air allowed to circulate.

- Pre-drying should be at about 120°C and the sheet thermoformed soon after, as moisture will gradually be re-absorbed when cooled below 100°C.
- If material has been correctly stored in a dry place, drying
- Pre-drying may be dispensed with if fast and effective heating is used e.g. infra-red heaters.
- Heating to thermoforming temperatures of 175-200°C should be evenly applied to both sides of the sheet.
- Parts should be allowed to cool in the mould to below 125°C and components must be completely rigid before removal from the mould.

BONDING

PRINTING

- Clean the polycarbonate thoroughly before printing

- Do not substitute toluene, xylene, cellulose acetate, methylethylketones or other solvents for the
- Provide good ventilation during drying periods
- Follow the paint/ink manufacturers recommendations at all times especially items relating to health and safety

CLEANING

A mild detergent with lukewarm water and a soft cloth or sponge should be used to clean Marlon flat sheet. Always rise thoroughly with clean water. Ethyl Alcohol can be used to remove paint and other such substances. This should always be washed and rinsed thoroughly afterwards.



Installation

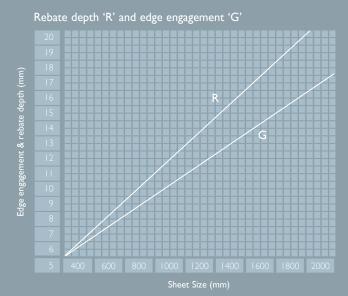
MARLON FS FLAT SHEETS CAN BE INSTALLED IN MOST TYPES OF FRAMES INCLUDING PVC, WOOD, STEEL AND ALUMINIUM. THE FRAMING SYSTEM MUST RETAIN THE SHEET BUT ALLOW THERMAL MOVEMENT.

Only compatible sealants must be used, including silicone, EPDM, neoprene or 'plasticiser free' chloroprene materials of proven performance. Please note that PVC gaskets are not compatible with polycarbonate.



rame side length (mm)





EXPANSION ALLOWANCE

Care must be taken when cutting sheets to allow space for thermal expansion to avoid stress or bowing with temperature change (see table next page).

Allowance must be made in both length and width. In vertical installations the expansion allowance must be left at the top of the frame and at both sides.

EDGE ENGAGEMENT

Each rebate details must allow enough depth to include the expansion allowance plus a sufficient sheet edge engagement to prevent sheet 'pop-out' from the fame.



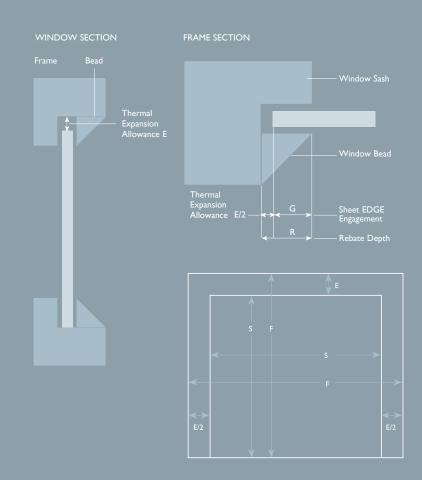
SHEET SIZING

Use the table below to calculate the required trimming of Marlon FS flat sheets to allow for expansion dependent on the sash dimensions

Sash Dimensions (mm)	
300-1000	3
1000-1300	4
1300-1700	5
1700-2000	6
2000-2300	7
2300-2700	8
2700-3000	9

SHEET THICKNESS

The following charts indicate the required sheet thickness to maintain sheet deflection to a maximum of 50mm and assumes four side edge engagement. Having first calculated the effective area of the sheet, the required thickness for a given wind load can be selected. Guidance is also available from BS5516.



Calculation of the effective sheet area

0.25	ΑI	ΑI	ΑI	ΑI	ΑI	ΑI	ΑI	ΑI	Al	ΑI	Al									
0.5	ΑI	A2	A3	A4																
0.75	ΑI	A3	A5	A6	A7															
1.0	ΑI	A4	A6	A8	A9	A9	AI0	AI0	AI0	AI0	AII	All	AH	AH	All	AH	All	AII	All	All
1.25	ΑI	A4	A7	A9	AI0	AII	AI2	AI3	AI3	AI4										
1.5	ΑI	A4	A7	A9	AH	AI3	AI4	AI5	AI6	AI6	AI6	AI7								
1.75	ΑI	A4	A7	AI0	AI2	AI4	AI6	AI7	AI8	AI9	AI9	A19	_	-	-	_	-	-	_	-
2.0	ΑI	A4	A7	AI0	AI3	AI5	AI7	AI8	AI9	-	-	-	-	-	-	-	-	_	-	-

Selection of sheet thickness in mm

cicculoni o	Si oi silect directiess in him																		
Load kN/m²		A2																	
0.6	3	3	4	4	5	5	6	6	8	8	10	10	10	10	10	10	12	12	12
0.8	3	3	4	4	5	6	6	6	8	8	10	10	10	12	12	12	12	12	-
1.0	3	4	4	5	5	6	8	8	8	10	10	10	10	12	12	12	-	-	-
1.2	3	4	4	5	5	6	8	8	8	10	10	12	12	-	-	-	-	-	-
1.4	3	4	5	6	6	8	8	8	10	10	12	12	-	-	-	-	-	-	-



Curved Installation

MARLON FS FLAT SHEETS CAN BE INSTALLED IN A CURVED GLAZING SYSTEM ON SITE, WITHOUT PRIOR FORMING. THE THICKNESS OF SHEET THAT MUST BE USED WILL DEPEND UPON THE CURVATURE AND THE SPAN, THE DISTANCE BETWEEN GLAZING BARS AND THE MAXIMUM LOAD THAT WILL BE APPLIED TO THE SHEETS.

Each thickness has a minimum allowable radius

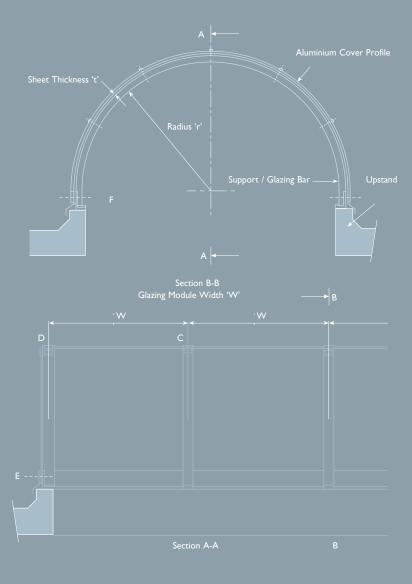
2	300				
3	450				
4	600				
5	750				
6	900				
8	1200				
10	1500				
12	1800				
15	2250				

Marlon FS Hard minimum radius for all thicknesses = 1500mm

The critical load at which buckling will occur is a function of the geometry of the structure and the intrinsic properties of Marlon flat sheet.

A safety factor of 1.5 is applied in all cases





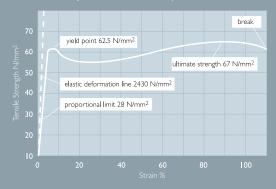


Properties of Marlon FS Polycarbonate

PROPERTIES		TEST METHOD	VALUE	UNITS
Mechanical	Tensile strength at yield	DIN 53455	>60	N/mm²
	Tensile strength at break	DIN 53455	>70	N/mm²
	Modulus of elasticity	DIN 53457	2300	N/mm²
	Charpy notched impact strength	DIN 53453	>30	kJ/m²
Physical	vsical Density		1.20	g/cm³
	Refractive index	DIN 53491	1.586	
	Light transmission (3mm thick, clear)	DIN 5036	92	%
Thermal	Linear expansion coefficient	-	68×10 ⁶	m/K
	Deflection temperature (load 1.81MPa)	DIN53461	135	°C
	Thermal conductivity	DIN52612	0.21	W/m.K
	Maximum service temperature	Permanent	100	°C
	Short term unstressed	Short term	130	°C

Tensile Strength

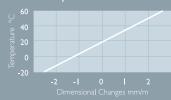
Measured on injection moulded test specimens



Light Transmission Marlon FS DIN5036

COLOUR CODE	0.75mm										I2mm	
Clear (S)	92%	92%	92%	92%	92%	92%	92%	90%	88%	80%	80%	80%
Clear (S embossed)	-	-	-	88%	_	_	-	82%	_	-	-	-
Bronze (CE)	_	-	-	-	50-53%	50-53%	47%	40%	-	-	-	-
Opal (FH)	-	-	-	-	35%	35%	-	-	-	-	-	-

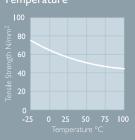
Thermal Expansion



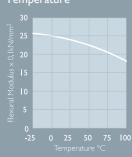
Thermal Transmittance - U value

Sheet Thickness (mm)	Marlon FSX (W/m²K)	Glass (W/m²K)
0.75	5.76	-
I	5.72	-
1.5	5.64	-
2	5.56	-
3	5.41	5.87
4	5.27	5.82
5	5.13	5.80
6	5.00	5.77
8	4.76	5.71
10	4.55	-
12	4.35	-
15	4.08	-

Tensile Strength v Temperature



Flexural Modulus v



Weight

Sheet Thickness (mm)	Marlon FSX (kg/m²)	Glass (kg/m²)
0.75	0.9	1.80
1	1.2	2.50
1.5	1.8	3.75
2	2.4	5.00
3	3.6	7.50
4	4.8	10.00
5	6.0	12.50
6	7.2	15.00
8	9.6	20.00
10	12.0	25.00
12	14.4	30.00
15	18.0	37.50

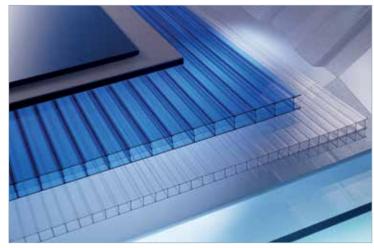
At just about half the weight of glass, Marlon flat sheet offers savings in handling transportation and installation

Chemical Resistance Marlon FS Hard

CHEMICAL RESISTANCE SOLVENT	MARLON FS HARD
Ethanol (90%)	Long
Propanol	Long
Acetone	Short
MEK	Long
Petrol	Long
Dilute Ammonia	Medium
Dilute Caustic Soda	Short
Concentrated Caustic Soda	Short
Dilute Organic Acid	Long
Dilute Inorganic Acid	Long

Short Term Resistance Drop/spills, significant changes in physical properties. Medium Term Resistance Some reduction in physical properties occurs. Long Term Resistance No attack, little or no reduction in physical properties.





Brett Martin's plastic sheets product range includes extensive options in foam PVC, polycarbonate, PVC, acrylic, aPET, PETg, SAN and styrene.





Plastic Sheets

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