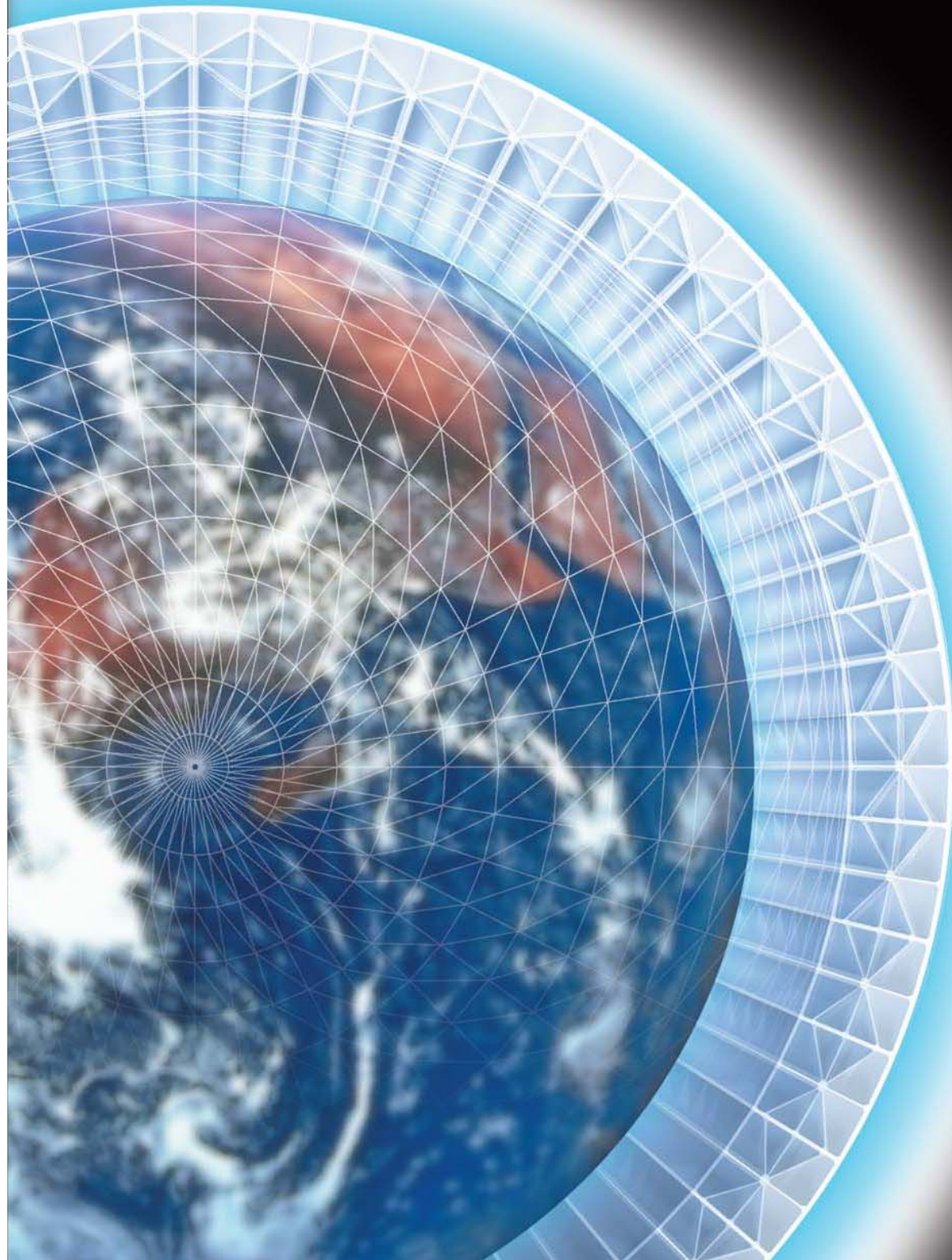




BRINGS NATURE IN

# Protected Atmosphere





# Polygal Sheets

Creating an atmosphere is an art form. Choosing the right product for the atmosphere is professionalism! If you are looking for a product that creates the ultimate atmosphere, gives a sense of openness and maximizes the advantages of nature while protecting from its elements... Polygal! Polygal produces a line of sheets that provide you with a broad range of excellent solutions for uses such as skylights roofing and covering buildings, swimming pools and glazing.

- Excellent Insulation
- Controlled Daylight Transmission
- Virtually Unbreakable
- Flame Retardant
- Flexible and Easy to Install
- Lightweight
- UV Blocking Layer
- Environmentally Friendly

## Applications:

### Architecture



### Agriculture



### Decoration

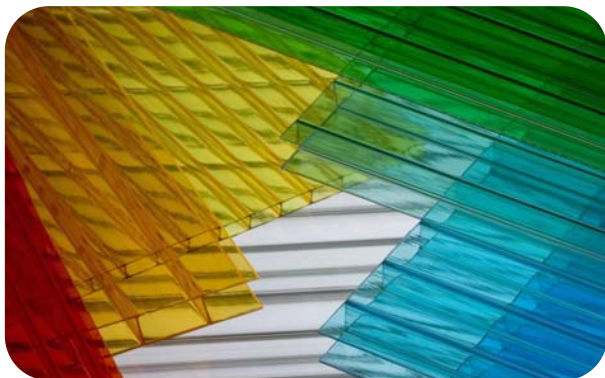


### Signs



The data in this advertisement are provided in good faith and constitute general information without commitment, and no warranty is given or implied. Polycarbonate is a combustible thermoplastic that complies with various international standards, as customary in each country. Avoid exposure to excessive heat or aromatic cleaning solvents. Normal fire precautions should be taken to protect against combustion.

# Product Descriptions



## Standard

Polygal Standard Sheets double and triple layered, manufactured in various colors and degrees of transparency, are designed for use in most conventional roofing and glazing applications.



## Thermogal

Thermogal unique inner X-brace structure provides extra-strength, rigidity and outstanding insulation. Available in different thicknesses, widths and colors. Ideal for low-pitched roofs and for glazing in closed structures with large-span openings.



## Titan

Titan Sky's internal cross-brace structure gives these sheets twice the strength and rigidity of equivalent standard polycarbonate sheets. Polygal Titan Sky provides a quality solution that is both intelligent and advanced for use where withstanding heavy loads is required.



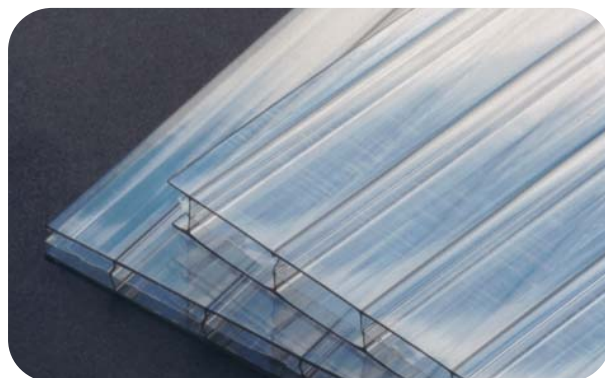
## Triple Clip

Triple-Clip Panel Glazing System combines endless design possibilities with many important advantages: excellent thermal insulation, highly flexible, yet virtually unbreakable, lightweight and easy to install, rigid sheet structure provides extra strength under wind and snow loads.



## Selectogal

Selectogal (RFX) An exclusive Polygal patent that enables the controlled penetration of heat and the transmission of pleasant daylight into buildings, while reducing heating and lighting costs. Selectogal's sophisticated prismatic structure enables it to reflect most of the sun's heat in the summer; yet allows increased penetration of solar heat in the winter.



## Triple Clear

Specially manufactured with a clear tint appearance, provides excellent thermal insulation, highly flexible, yet virtually unbreakable, Anti-Fog coating that prevents condensation build up, and falling droplets, rigid sheet structure provides extra strength under wind and snow loads.

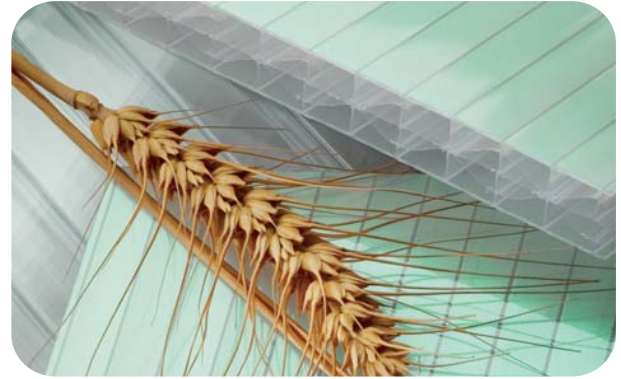


# Special Layers



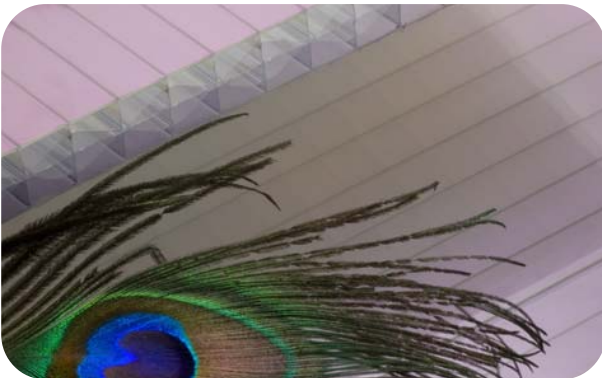
## PolyShade

PolyShade designed for warm climates. PolyShade effectively reflects sunlight and prevents excess heat build-up, combines effective solar heating control with a highly attractive, metallic look.



## Polycoolite

Polycoolite sheet is specifically designed to supply plants natural solar light needs for photosynthesis. It blocks the UV, supplies high blue and red, and reflects heat from the unused green. It reflects undesirable excess heat from the infrared range.



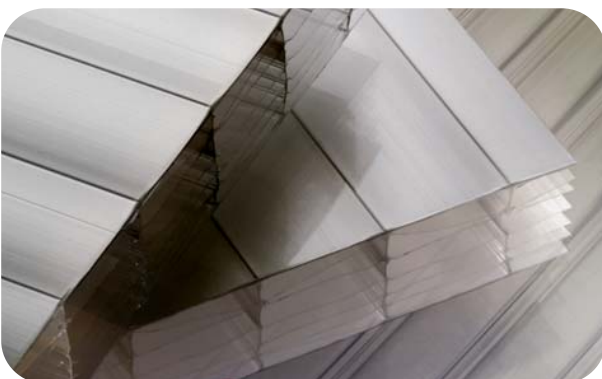
## Primalite

Primalite - Unique sheet selectively reflects a large portion of the Near Infra-Red solar radiation, while transmitting more of the visible light radiation.



## Spring

A transparent sheet with a special co-extrusion layer on the external side of the sheet under the UV protective layer "Spring" blocks the invisible IR solar radiation & heat. Result - Lower temperatures (less heat enters the structure), but still allow maximum light to enter the structure.



## Silhouette

Silhouette with its sophisticated and lustrous exterior surface, radiates elegance and good taste, available in a variety of formats, the Silhouette sheet features outstanding reflective qualities and selectivity making it an excellent choice and suitable for all daylight coverings.



## Rainbow

Special optical affects in Polygal's Rainbow sheets combine with the angle of the light to change the sheet color (e.g. from red to green), thus the Rainbow sheets by Polygal present a unique harmony that is both dynamic and varied.

## Mechanical and Thermal Properties

Full Technical Information at: [www.polygal.com](http://www.polygal.com)

Product	Structure	Thickness (mm)	Weight (g/m <sup>2</sup> )	Standard width (mm)	Minimum radius for cold bending arches(m)	U-Factor ASTM C177 TNO(W/m <sup>2</sup> ·°C)
<b>Polygal Standard Sheets (PCSS)</b>		4	800	980	0.70	3.9
		6	1300	1050	1.05	3.6
		8	1500	1200	1.4	3.3
		10	1700	1250	1.75	3.0
		16	2700	2100	2.8	2.3
<b>Triple-Clear (PC3)</b>		8	1650	1830	-	2.8
		10	1750	2100	-	2.6
<b>Titan Sky</b>		10	1750	1050 1200	1.75	2.4
		16	2500	2100	2.8	2.1
<b>Selectogal</b>		16	3000	1050 1200	2.8	2.3
<b>Thermogal</b>		25	3500	1200 2100	4.37	1.7
		32	3800	980	5.6	1.3
	35	4000	1200	6.1	1.25	

Available standard colors: Clear, Ice, Bronze, Nonglare, Blue, Green, Turquoise, Grey. Standard sheet length: 3m, 4m, 6m. Maximum length: in accordance with handling restrictions.

Thermal expansion: 2.5 mm/m for Clear and Ice sheet, 4.5 mm/m for dark colors like Bronze, Blue, Green, Grey etc. sheet. Service temperature range: -40 to +120 °C.



## Optical Properties

Product	Thickness (mm)	Light Transmission ASTM D1003 (%)			
		clear	NGL	ice	bronze
<b>Polygal Standard Sheets (PCSS)</b>	4	82	-	-	-
	6	80	-	-	-
	8	80	25	32	42
	10	79	-	-	-
	16	72	35	-	-
<b>Polygal Triple-Clear</b>	8	77	-	-	-
	10	76	-	-	-
<b>Polygal Titan Sky</b>	10	62	25	32	42
	16	62	25	32	42
<b>Polygal Selectogal</b>	16	34	32	-	42
<b>Polygal Thermogal</b>	25	55	-	20	-
	32	50	15	51*	16*
	35	50	15	47*	14*

\*By ASTM D1494

## Special Layers Optical Properties

Product	Structure	Thickness (mm)	Light Transmission (%)		Shading Coefficient
			ASTM D1003	ASTM D1494	
<b>PolyShade</b>	Standard	8-10	18	-	0.33
		16	18	-	0.26
<b>Primalite</b>	Standard	8-10	45	-	0.45
		16	32	-	0.31
	Titan Sky	16	18	-	0.27
	Thermogal	25	15	-	0.34
		32	15	-	0.28
<b>Silhouette Pearl</b>	Standard	8	40	-	0.58
	Titan Sky	16	18	-	0.35
	Thermogal	32	10	45	0.39
<b>Silhouette Gold</b>	Standard	8-10	35	61	0.42
	Titan Sky	16	18	47	0.29
	Thermogal	32	10	43	0.31
<b>Polycoolite</b>	Standard	8	45	63	0.50
<b>Spring</b>	Standard	8	70	-	0.61
	Thermogal	32	44	47	0.42
<b>Rainbow</b>	Standard	8	15	-	0.60

new

new



Always look for the original sign



Polygal is the leading manufacturer of structured Polycarbonate panels, and is known throughout the world for the outstanding quality of its products.

Polygal was the first manufacturer in the world to create structured Polycarbonate panels, and over the last 30 years has developed and produced a broad spectrum of these products, which are successfully covering a full array of structures worldwide.



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