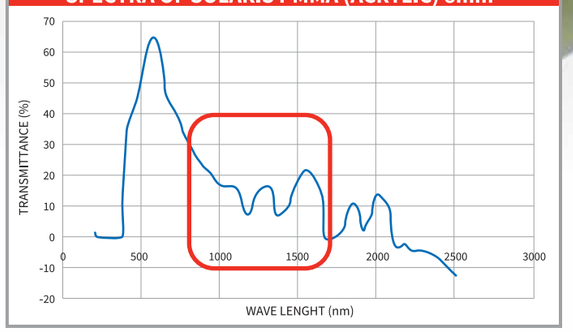
Policam
Plastic Sheets

Solaris

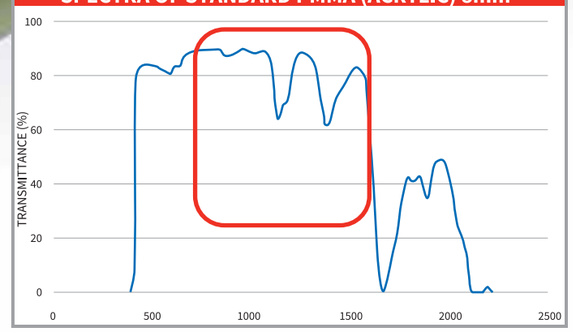
Solaris PMMA (ACRYLIC) SHEET

IR INFRARED COATING

SPECTRA OF SOLARIS PMMA (ACRYLIC) 8mm



SPECTRA OF STANDARD PMMA (ACRYLIC) 8mm



* The most important transmittance values are between (IR-A) 750 and 1500 nm where this wavelenght range has the highest energy level in electromagnetic

SOLAR & OPTICAL FACTORS

	ST (%)	SA (%)	SHGC (%)	SC (%)	VT (%)	LSHG (%)
SOLARIS 8 MM PMMA	33,2	66,8	51,2	58,9	64,1	1,25

- LSHG defines solar performance and indicates Light Transmittance/SHGC ratio
- High LSHG indicates High Light Transmittance and Low Solar transmittance of Solaris sheets
- The speciality of Solaris PC is maximum light transmittance while allowing minimum solar transmittance which is much better than most of competitors. That means; Solaris provide extreme thermal protection by IR blocking to inside of application.
- Measurements are according to EN410:2011
- Measurements applied with V-670 spectrophotometer device. Measurements applied by exposing to 470-2500 nm wave length rays to the the sample sheets. IR rays defined as (NIR) IR-A: 700 nm–1400 nm & (MWIR) IR-B: 1400 nm–3000 nm & (LWIR) IR-C: 3000 nm–1 mm. The considered range is between IR-A 700nm and 1400 nm wave length

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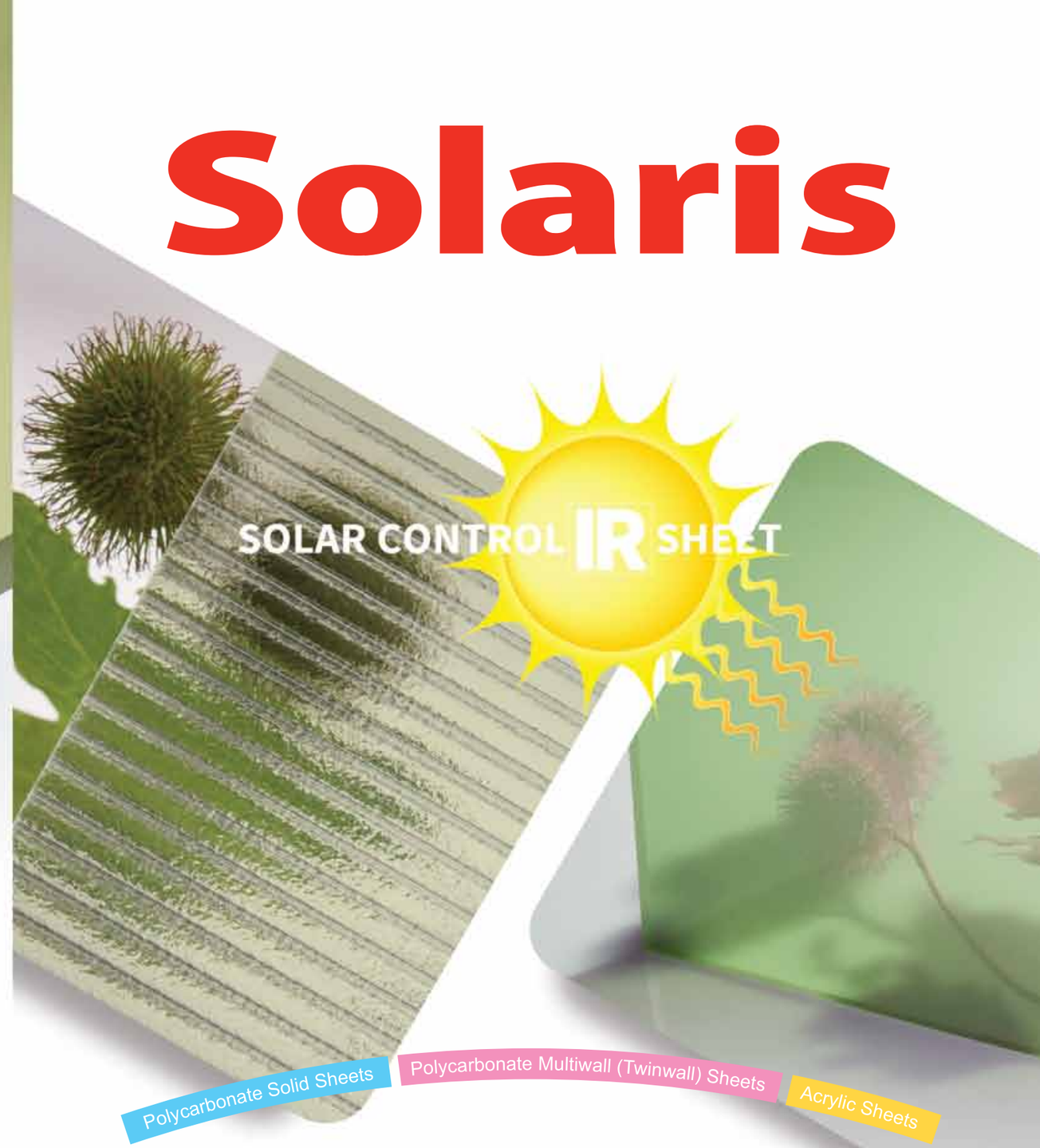
Solaris



Polycarbonate Solid Sheets
Polycarbonate Multiwall (Twinwall) Sheets
Acrylic Sheets

MAXIMUM LIGHT ↑ ↓ MINIMUM HEAT
TRANSMISSION

Policam

IR INFRARED COATING

minumum heat transmittance

high solar performance

up to 40% energy saving

strong and tough

maximum light transmittance

PROTECTION

Solaris

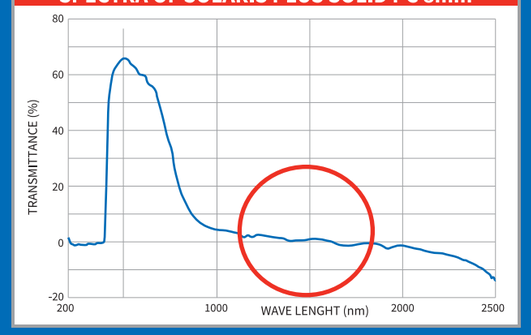
Policam offers high quality IR Polycarbonate and Acrylic Sheets for applications which needs infrared heat blocking with high expertise to its customers. We call our IR Sheet “SOLARIS”. Solaris refers to solid PC , multiwall PC and Acrylic sheet.

Both solid and multiwall products are excellent for applications such as roof domes, skylights, walkways, conservatories, and other buildings that require high levels of light without the excess heat. Additionally, the solid sheet product can be used for public transportation applications for example train and bus glazing.

Policam Solaris sheets are specifically produced for projects requiring blockage infrared (IR) transmission starting about 750nm. The physical properties of this product are the same as standard extruded sheet and thus the same fabrication techniques apply. The specialty of Solaris® is the ability of transmitting visible light while blocking infrared (IR) rays thus it gives thermal protection to applications. Transparent polymer glazing reduces interior heat build up while maintaining the highest level of light transmission.

Solaris PLUS PC SOLID SHEET

SPECTRA OF SOLARIS PLUS SOLID PC 8mm



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SOLAR & OPTICAL FACTORS

	ST (%)	SA (%)	SHGC (%)	SC (%)	VT (%)	LSHG (%)
SOLARIS PLUS 8 MM SOLID PC	28,8	71,2	48,02	55,2	64,1	1,34

- LSHG defines solar performance and indicates LighTransmittance/ SHGC ratio
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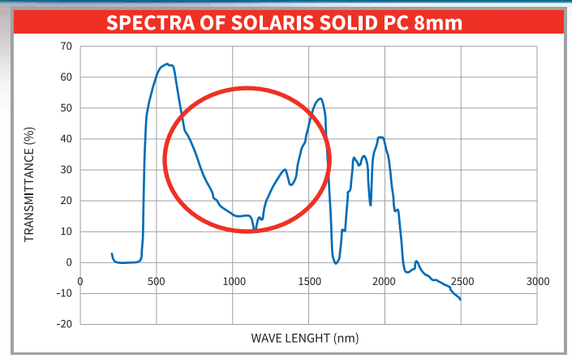
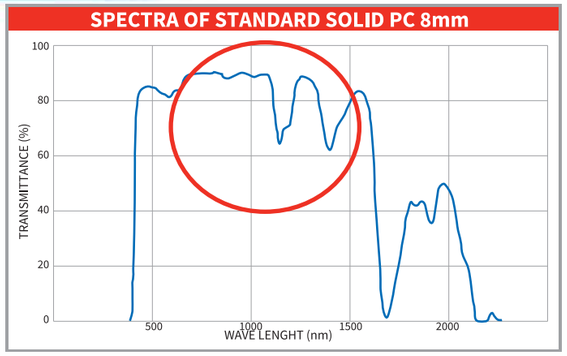
SOLARIS +PLUS+ PC SOLID

Solaris PC SOLID SHEET

SPECTRA OF SOLARIS SOLID PC 8mm



SPECTRA OF STANDARD SOLID PC 8mm



* The most important transmittance values are between (IR-A) 750 and 1500 nm where this wavelenght range has the highest energy level in electromagnetic

SOLAR & OPTICAL FACTORS

	ST (%)	SA (%)	SHGC (%)	SC (%)	VT (%)	LSHG (%)
SOLARIS 8 MM SOLID PC	35,1	64,9	52,7	60,5	63,5	1,2

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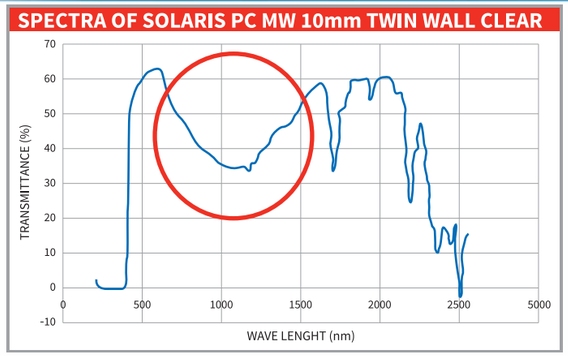
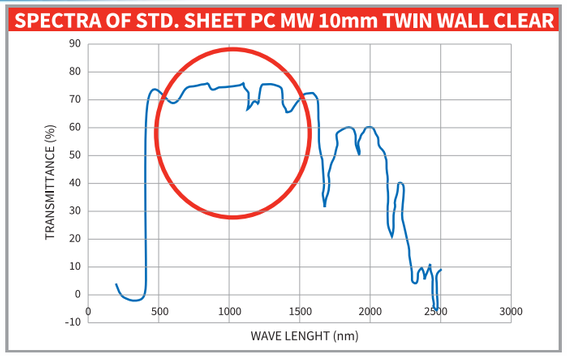
Solaris PC MULTIWALL SHEET

SPECTRA OF SOLARIS PC MW 10mm TWIN WALL CLEAR



SPECTRA OF STD. SHEET PC MW 10mm TWIN WALL CLEAR



* The most important transmittance values are between (IR-A) 750 and 1500 nm where this wavelenght range has the highest energy level in electromagnetic

SOLAR & OPTICAL FACTORS

	ST (%)	SA (%)	SHGC (%)	SC (%)	VT (%)	LSHG (%)
SOLARIS 10 MM TWIN WALL MW PC	46,8	53,2	61,2	70,3	67	1,09

- LSHG defines solar performance and indicates Light Transmittance/SHGC ratio
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