POLITEC
POLIMERI TECNICI

MADE IN SWITZERLAND

3Wall 6-8-10 mm Polycarbonate Sheet

• Conservatories • Malls • Sport halls • Skylights • Tunnel • Pedestrian walks

More Light For Better Life

SOLAR CONTROL SHEETS

The energy transmitted by the solar rays has to be controlled, if necessary it could be maximised example in greenhouses application or where the translucidpart is minimum but in many applications it is necessary to reduce the unpleasant serra effect. Controlling the amount of solar energy which is transmitted into a structure is an essential parameter for environment comfort. To this aim, Politec has studied a complete series of solar control sheets.

HEAT SHIELD - ATHERMIC - ATHERMIC OPAL - IR

The Politec Heatshield sheets are extruded with the UV block additive and heat reflective material: the result is a crystal clear sheet with a heat reflextive upper layer. The Politec Athermic sheets are produced adding, metal particles in the mass of the products together with polcarbonate. These are one color sheets and Politec offers 2 different possibilities grey and deep grey colour with different LT and performances. The Politec Athrmic Opal sheets are DOUBLE colour sheets with on the lower side an opal tone (light or deep) and on the upper side different colours all with METALLIC PARTICLES in it. Thanks to these the sun is partially reflected and partially transformed in energy that remains in athermic upper side of the sheet. The Politec sheets is the NEW GENERATION of Heat Reducers. In this product it has been added an additive that stops completely the infrared rays which permits to maintain a good level of LT reaching a very good heat reduction.

THE GREENHOUSE EFFECT?

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REDUCES TEMPERATURE!

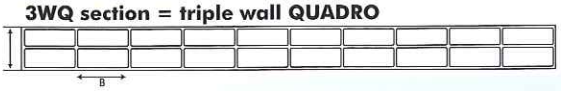
The greenhouse effect is the rise in temperature that the Earth experiences because certain gases in the atmosphere (water vapor, carbon dioxide, nitrous oxide, and methane, for example) trap energy from the sun. Without these gases, heat would escape back into space and Earth's average temperature would be about 60°F colder. Because of how they warm our world, these gases are referred to as green house gases.

Do not ignore the consequences of the GREENHOUSE EFFECT!

Thanks to the SOLAR PROTECTION property of our Politec athermic opal sheets we can now have an effective protection against increase of the temperature caused by the greenhouse effect. With the Politec athermic opal sheets you can have a good control of the inside heat and maintain a comforting environment.

PRODUCTION RANGE

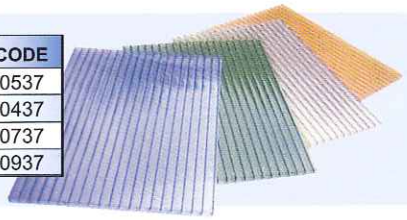
3WQ section = triple wall QUADRO



A mm	B mm	WEIGHT Kg/m²	COLOUR	SIZES AVAILABLE Width x Length
6	8	1.3	Athermic 0777 Athermic grey/opal 0737 NEW ! IR 0181	2100 x 6/7000 (*)1220 x 6/7000 Special dimension on request.
8	8	1.5		
10	8	1.7		

(*) can only be produced with open edges.

COLOUR TABLE	CODE
Athermic blue / opal	0537
Athermic green / opal	0437
Athermic grey / opal	0737
Athermic copper / opal	0937



TECHNICAL INFORMATION / LIGHT TRANSMISSION

A correct technical planning regarding light requires control of the amount of light needed within any given structure. It is therefore evident how important it is to use sheets with a correct light transmission. The light transmission values for POLITEC sheets in the various colours and versions are listed below:

Structure	Thickness (mm)	Weight (kg/m²)	Light Transmission LT (%)					
			Heat Shield (0305)	Super life (0032)	Athermic (0777)	Athermic-opal (0737*)	Athermic-opal (0739*)	IR (0184)
3Q	6	1,3	65	-	35	50	40	-
3Q	8	1,5	65	25	35	45	30	35
3Q	10	1,7	65	25	35	45	30	35

Internal measurement in accordance with the ASTM D 1003 regulation Light diffusion may vary by plus or minus 5 numeric

SHADING COEFFICIENT

The shading coefficient (SC) represents the ratio between total energy, which passes through the polycarbonate sheet, and the total solar energy, which passes through a clear monolithic glass with a 3 mm thickness.

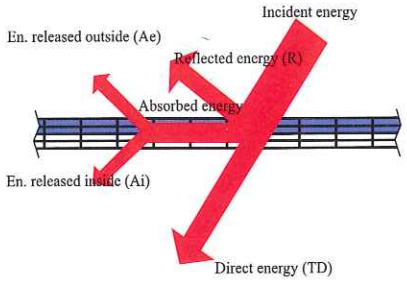
Structure	Thickness (mm)	Weight (kg/m²)	Shading coefficient (SC)					
			Heat Shield (0305)	Super life (0032)	Athermic (0777)	Athermic-opal (0737*)	Athermic-opal (0739*)	IR (0184)
3Q	6	1,3	-	-	0.59	0.61	0.60	-
3Q	8	1,5	0.67	0.53	0.55	0.56	0.52	0.49
3Q	10	1,7	0.64	0.52	0.52	0.54	0.51	0.47

Value measured with the relation SC = (1,15 x G)/100 where : SC = shading coefficient G = solar factor (G-value)

SOLAR FACTOR (G-value)

The G-value is the percentage ratio of the solar energy which passes through the sheet (TS) and the incident energy; the energy transmitted by the sheet is the sum of the direct energy (TD) and of the enegy which the sheet draw again towards the interior of the structure (Ai).

Structure	Thickness (mm)	Weight (kg/m²)	Shading coefficient (SC)				
			Super life (0032)	Athermic (0777)	Athermic-opal (0737*)	Athermic-opal (0739*)	IR (0184)
3Q	6	1,3	-	50	53	51	-
3Q	8	1,5	46	48	49	45	43
3Q	10	1,7	45	45	47	44	41

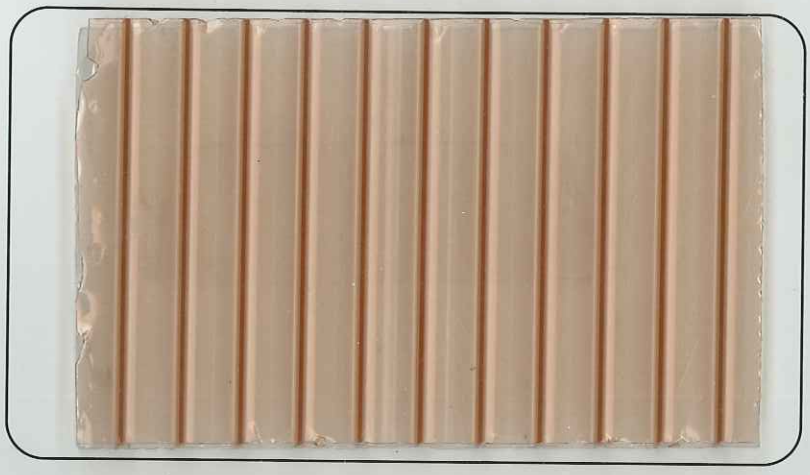


MADE IN SWITZERLAND

1 Beautiful two-tone colours

2 Heat reduction via special athermic layer

3 Tough 3-wall construction



ATHERMIC OPAL

Blue / Opal
0537

Grey / Opal
0737

Green / Opal
0437

Copper / Opal
0937

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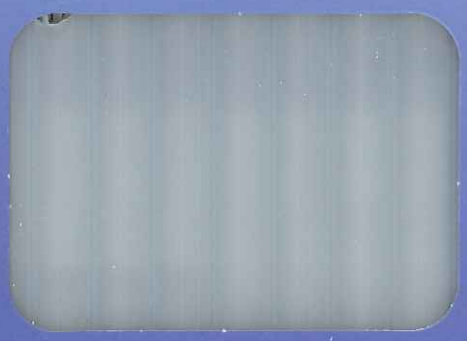

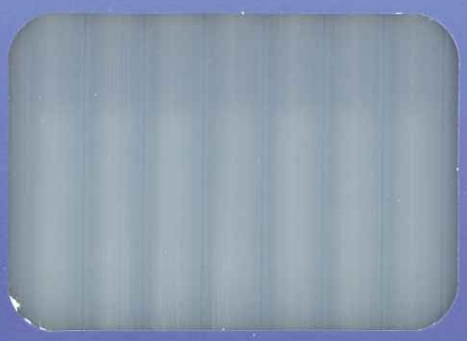

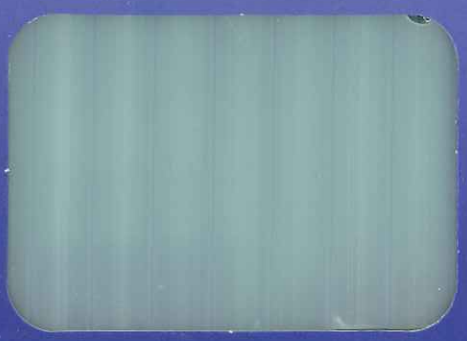

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