

Full Technical
information at:
www.polygal.com

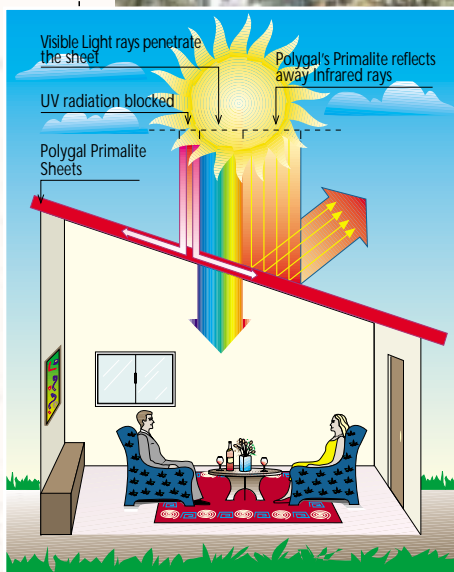
POLYGAL®

PLASTICS INDUSTRIES LTD.

Polygal Primalite Glazing Sheets

The Beauty of Light - Without the Heat

Nothing matches the soft, soothing quality of natural light in an interior space – captured through skylights and transparent roofing. But until now, there was no light without heat, and daylit spaces were often overheated and expensive to cool.



Primalite Sheets Separate Light from Heat

Now, Polygal has developed Primalite – strong, transparent Polycarbonate glazing sheets that let you enjoy natural lighting – without the heat.

Primalite sheets advanced design selectively prevents heat penetration – allowing the visible wavelength to penetrate the sheet. This makes Primalite the ideal energy-saving solution for pergolas, sunrooms, swimming pool coverings and other outdoor roofing applications.

Natural Light includes:

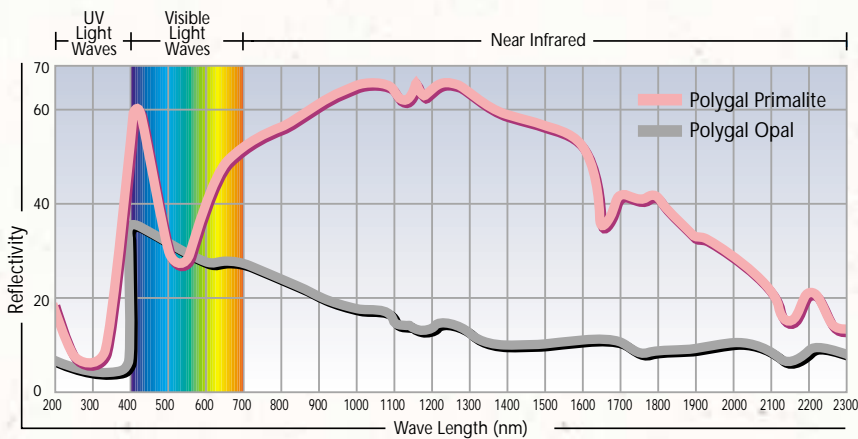
- Ultraviolet (UV) rays - hazardous to humans and destructive to material
Entirely blocked by Primalite Sheets
- Visible light –
Selectively transmitted through Primalite Sheets
- Infrared rays – invisible, yet heat-transmitting
Selectively reflected away by Primalite Sheets

POLYGAL® PRIMALITE™

Primalite sheets block over 65% of the sun's infrared heat
Primalite is fundamentally different from other sheets, which feature low, fixed blockage and reflection levels. Primalite's selective penetration ensures that the UV and Infrared rays are screened out – and cool, natural light reaches the building interior.

Selective screening you can see
Primalite sheets' special light-selective pigment has a soft pinkish hue on the exterior, heat reflecting side, while the interior, light transmitting side has a soft pearly-green glow.

Comparison of Primalite and Opal Sheets



The area under the graph lines represents the amount of light and heat that are allowed into the building by the roof. Primalite sheets reflect much more heat in the infrared region than do the opal-colored ones.



Polygal Primalite – Now you can enjoy the sunlight – without the heat

Air-conditioning energy savings from Primalite sheets in a mid-sized building
51% compared to standard transparent sheets
36% compared to Opal sheets

Primalite Sheet Advantages:

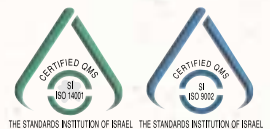
- Create cool, comfortable daylight interiors
- Energy-saving – for significant reductions in cooling costs
- Prevent uv damage to humans, furniture and other interior objects
- Provide optimal penetration of light to all parts of the interior
- Light and easy to install, yet strong and durable
- Weatherproof for all climates
- Smooth, attractive look

Primalite 8, 10, 16, 25, 32, 35mm

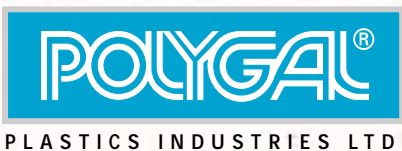
Product	Tsol	Rsol	f b	Tvis	Rvis	f b	SC	SHGC	RHG (W/m ²)	U Factor Winter Night (W/m ² •K)	Keff (W/m•K)	LT*
Primalite 8mm	0.380	0.557	0.501	0.474	0.46	0.39	314	3.3	0.049	45		
Primalite 10mm	0.380	0.557	0.501	0.474	0.45	0.38	313	3.0	0.056	45		
Primalite 16mm	0.218	0.514 0.514	0.332	0.391 0.368	0.31	0.27	218	2.3	0.059	32		
Primalite 16mm Titan	0.142	0.432 0.285	0.209	0.350 0.309	0.27	0.23	189	2.2	0.0543	25		
Primalite 25mm	0.217	0.456 0.399	0.307	0.375 0.389	0.34	0.29	230	1.7	0.0666	18		
Primalite 32mm	0.159	0.440 0.331	0.240	0.359 0.343	0.28	0.24	191	1.4	0.0622	15		
Primalite 35mm	0.159	0.440 0.331	0.240	0.359 0.343	0.28	0.24	191	1.36	0.0622	15		

*LT- Light transmission in % according to ASTM-D1003 measured between ribs. Look at the web site for a complete terms definition.

For over 25 years, Polygal has been developing and manufacturing a wide range of multi-layered polycarbonate panels, which are proudly installed in buildings worldwide. A leader in its field, Polygal is known around the world for the quality of its products and was the first in the world to produce polycarbonate multi-wall panels for building applications.



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POLYGAL Inc.
P.O. Box 410592, Charlotte, NC 28241., USA
Toll free: 1-800-5370095
Tel: 1 (704) 5883800 | Fax: 1 (704) 5887400
E-mail: usasales@polygal.com
www.polygal.com

POLYGAL Plastics Industries Ltd.
Ramat Hashofet 19238 Israel
Tel: 972-4-959 6222
Fax: 972-4-959 6284
E-mail: sales@polygal.co.il
www.polygal.com

Technical Support
Tel: 972-4-959 6220
Fax: 972-4-959 6235
E-mail: techsupport@polygal.com

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