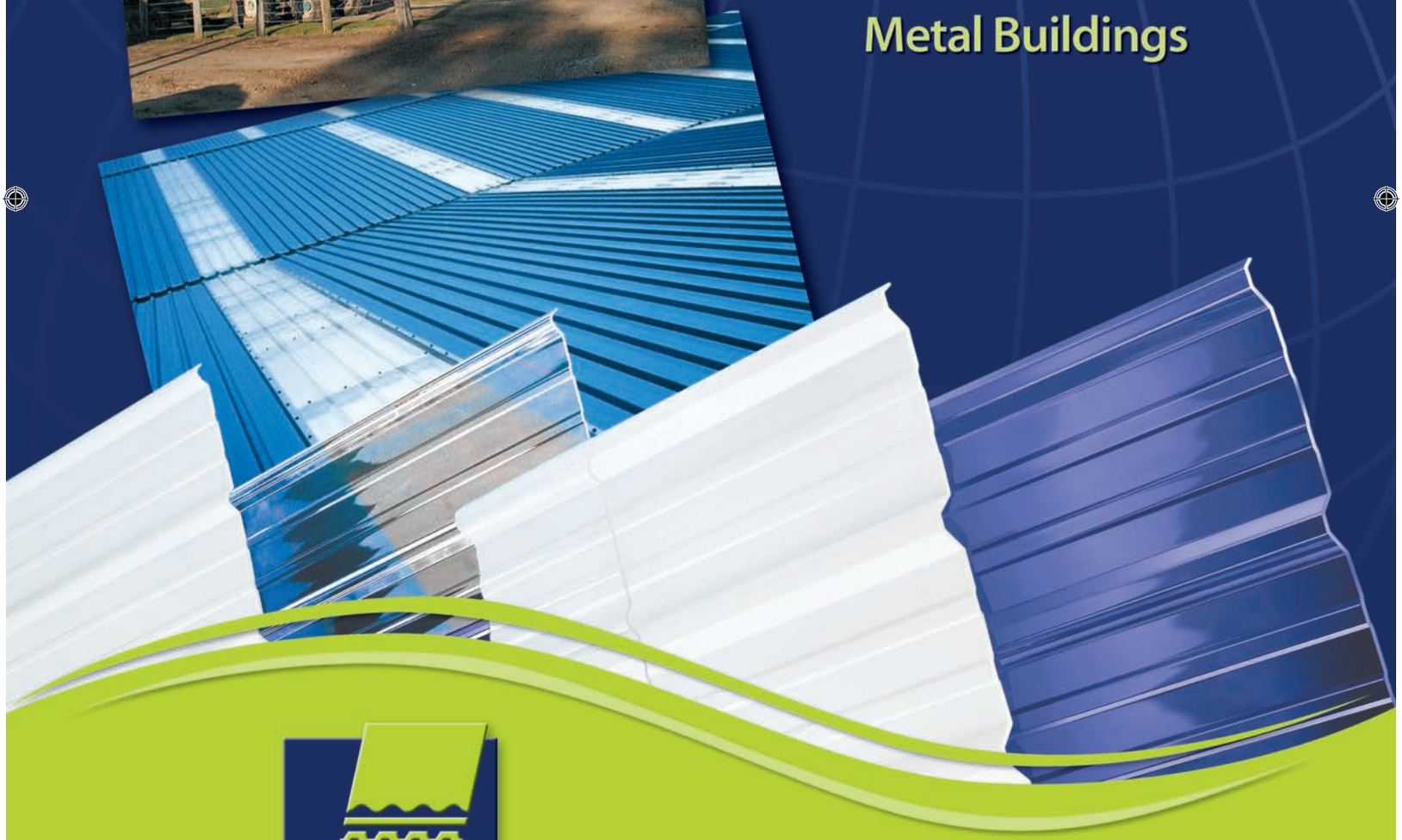
SunSky®

Corrugated Polycarbonate Skylight and Side Light Panels for Advanced Metal Buildings



PALRAM

Creating Solutions

High performance products like these rely on polycarbonate glazing to resist high impact, high winds, hailstorms, fire, temperature extremes, and long-term exposure to ultraviolet light...

the same conditions that skylights and side lights must resist.

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NEW
SOFT WHITE
with 100% Diffusion
SUNSKY CORRUGATED POLYCARBONATE
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SunSky
CORRUGATED POLYCARBONATE

UL 580 CLASS 90
Recognized and Classified

Description

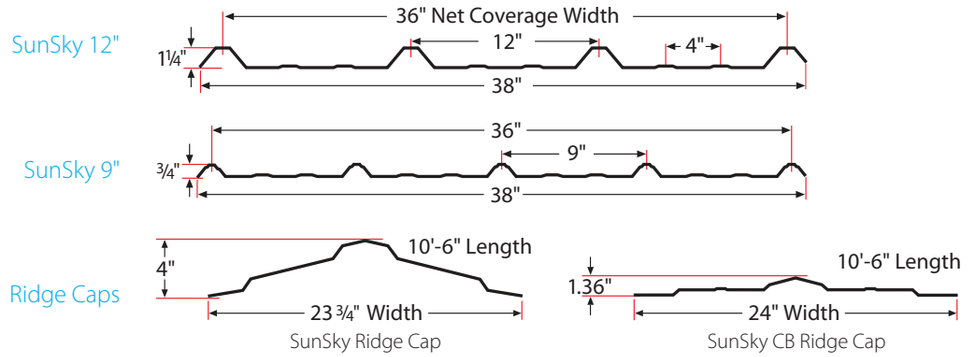
For skylight and sidelite applications, SunSky® corrugated polycarbonate panels offer multiple advantages over traditional fiberglass corrugated panels: up to 20 times greater impact resistance, the highest light transmission rates, the lowest yellowing index, the highest load rating, and the highest resistance to wind uplift... outstanding properties confirmed in accredited laboratory testing and in installations worldwide since 1984.

The panels are also available in custom profiles to match any corrugated metal roofing system, and in custom thickness to customer specifications (minimums apply).

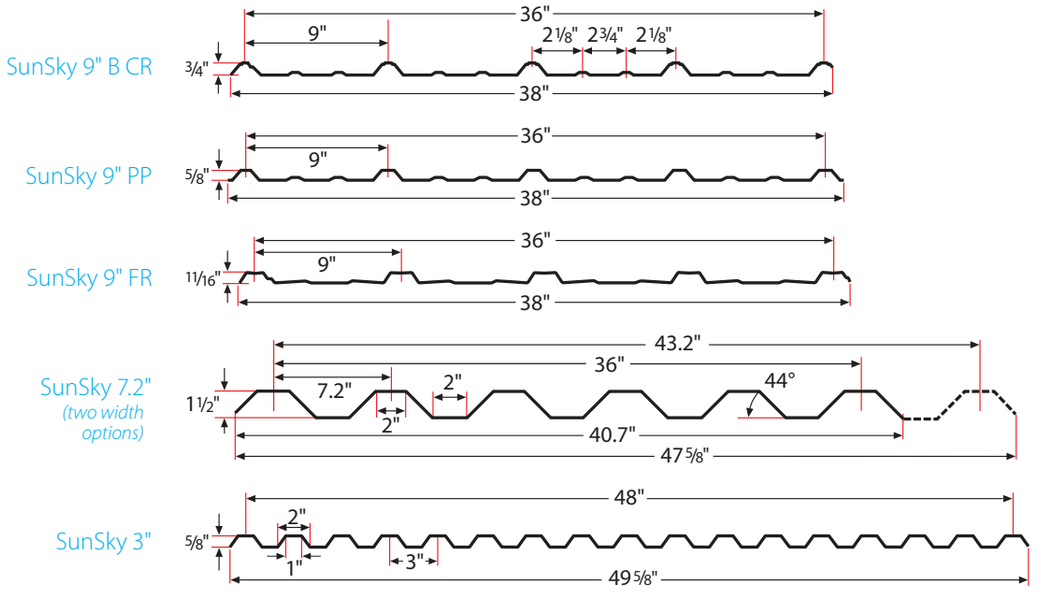
SunSky Features:

- Virtually unbreakable
- Self extinguishing
- Retains optical clarity over time
- Wide temperature range (-40°F to 210°F)
- Easily and safely Installed
- 10-Year warranty
- Hail and wind resistant
- 100% UV protection

Stock Profiles *(Typically Readily Available)*



Specialty Profiles* *(Minimum Order Quantity & Lead Time Required)*



ProfileDescription	Available Color/Tint	Thickness (in/mm)	Length
SunSky 9" all types, and 12"	Clear, Soft White and Opal White	0.032 / 0.80	8', 10', 10'-6", 11', 12', 16', 24'
SunSky 12"	Clear, Soft White and Opal White	0.039 / 1.00	8', 10', 10'-6", 11', 12', 16', 24'
SunSky 7.2"	Clear, Soft White and Opal White	0.039/ 1.00	Special Order
SunSky Ridge Cap	Clear, Soft White and Opal White	0.039/1.00	10'-6"

Custom lengths available. Lead time depends on production schedule and order quantity.

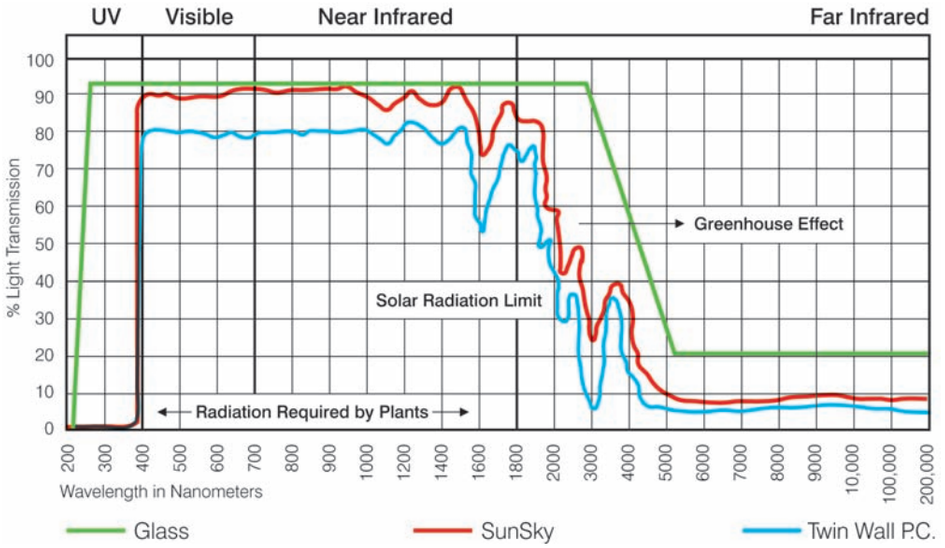
** Specialty profiles are typically not in stock, but can be produced provided minimum order requirements, lead time, and pricing considerations are met.*

Radiation Filtering

SunSky Panels transmit radiation selectively. They form a complete shield against harmful ultraviolet rays which may scorch crops, while admitting most of the visible light, essential to crop health and photosynthesis. By completely blocking the far infrared rays, SunSky prevents heat loss at night. SunSky blocks both UV-A and UV-B.

Climatic Performance

SunSky Panels perform flawlessly under extremely harsh climatic conditions. Service temperature range -40° to 210° F, enabling unlimited use throughout the world.



Thermal Insulation

SunSky's heat conductivity is lower than fiberglass (FRP) sheets. These features facilitate considerable heating cost cuts, in comparison with fiberglass.

Weathering

Due to its coextruded built-in UV blocking and protecting layer, SunSky maintains its light transmission and physical properties and does not yellow: Arizona tests and accelerated QUV tests indicate a significant advantage of SunSky over competitive sheets such as twin wall polycarbonate and fiberglass.

QUV 1000 HOUR YELLOWING TEST
(roughly equivalent to 10 year actual exposure)

0 Hrs 1000 Hrs
Clear SunSky Polycarbonate

0 Hrs 1000 Hrs
White SunSky Polycarbonate

0 Hrs 1000 Hrs
Clear FRP Brand B

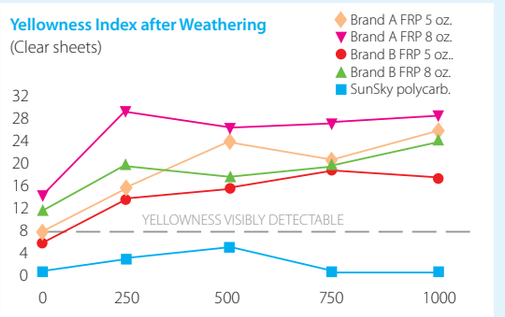
0 Hrs 1000 Hrs
White FRP Brand A

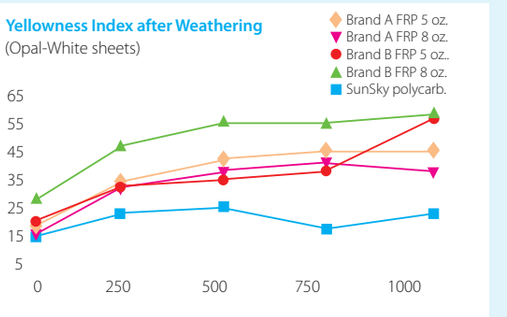
SunSky Corrugated Polycarbonate Panels exhibit significantly greater resistance to yellowing than fiberglass panels.

Weathering Properties

SunSky Corrugated Polycarbonate Panels demonstrate greater resistance to yellowing, and transmit more light, than fiberglass panels. The results from QUV testing depicted below demonstrate the superior performance of SunSky compared to competing products. 100 hours of QUV exposure is roughly equivalent to 1 year of actual outdoor exposure in Arizona.

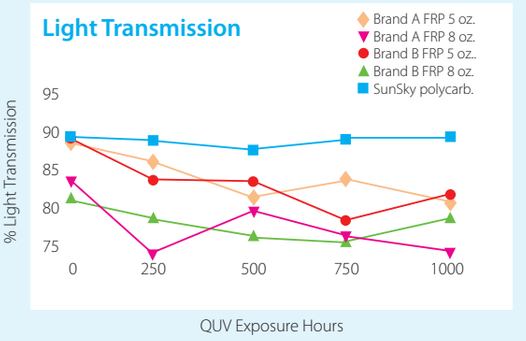
Clear Materials	Exp. Hrs.	% LT Light Transmission	Δ% LT Light Transmission	YI Yellowing Index	ΔYI Yellowing Index
SUNSKY	0	91.2	0	1.26	0
Polycarbonate	250	90.7	-0.5	4.27	3.01
	500	89.7	-1.5	6.69	5.43
	750	90.9	-0.3	3.78	2.52
	1000	91.2	0	3.70	2.44
Brand A FRP	0	90.3	0	9.89	0
5 oz.	250	88.0	-2.3	18.25	8.36
	500	83.7	-6.6	24.43	14.54
	750	86.4	-3.9	22.43	12.54
	1000	83.3	-7.0	27.88	17.99
Brand A FRP	0	85.8	0	15.10	0
8 oz.	250	75.4	-10.4	31.98	16.88
	500	82.7	-3.1	27.42	13.32
	750	79.3	-6.3	29.89	14.79
	1000	76.6	-9.2	30.45	15.35
Brand B FRP	0	90.5	0	7.17	0
5 oz.	250	85.5	-5.0	14.83	7.66
	500	84.0	-6.5	16.74	9.57
	750	81.5	-9.0	20.68	13.51
	1000	83.8	-6.7	19.47	12.30
Brand B FRP	0	83.5	0	12.61	0
8 oz.	250	81.7	-1.8	22.56	9.95
	500	79.2	-4.3	19.61	7.00
	750	78.2	-5.3	21.62	9.01
	1000	80.1	-3.4	26.97	14.36





Yellowness Index

Note: Each 100 hours of weathering test roughly equivalent to one year actual weathering.



% Light Transmission

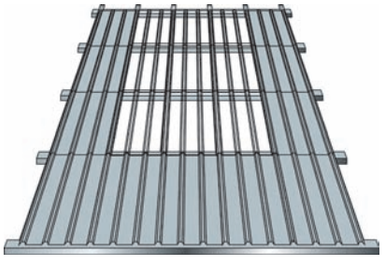
Note: Each 100 hours of weathering test roughly equivalent to one year actual weathering.

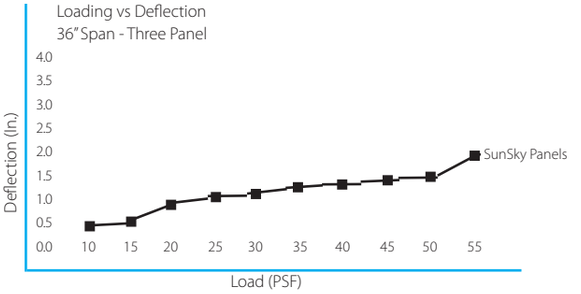
Uniform Load

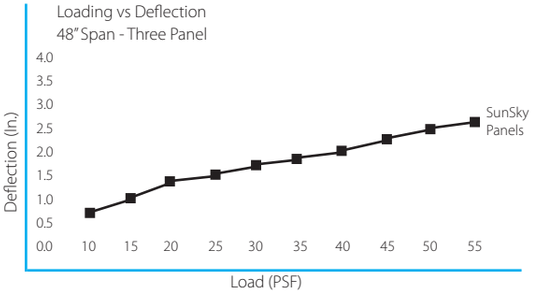
SunSky Corrugated Polycarbonate Panels had no mechanical failures or cracks at the end of any test to measure ultimate load when tested to "ICBO Evaluation Service Acceptance Criteria, AC 16 Plastic Skylights" (UL recognized file number 18450).

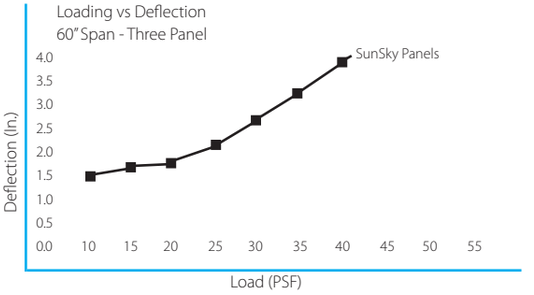
Note: The tables below are provided only as a guideline. In formation was obtained from tests using SunSky polycarbonate panels as roofing and siding. To avoid premature failure, all proposed spans should be tested in actual tests. In addition, a licensed engineer or architect must verify the application.

Multi-Panel Runs for roofing and siding

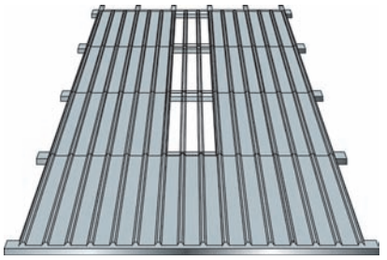


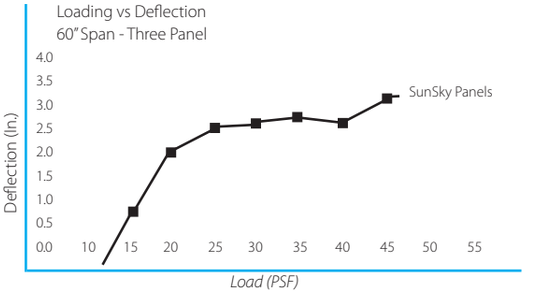


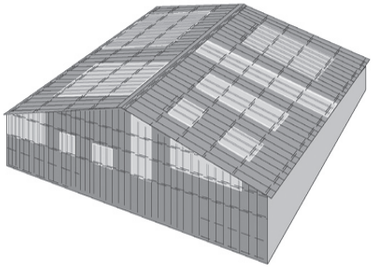




Single-Panel Runs for roofing and siding







For detailed Installation Instructions
Contact Palram Americas and request:

SunSky Installation Guide Booklet

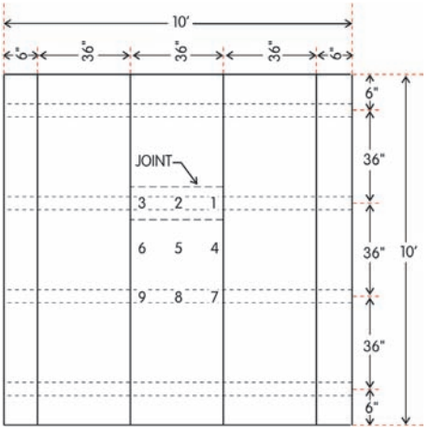
Uplift

SunSky corrugated polycarbonate panels meet Uplift Test Criteria specified in UL 580 Test for Uplift Resistance of Roof Assemblies (UL Class 90).

Test Description

Roof Covering: Corrugated polycarbonate roof panels with 9-inch spaced corrugations. The tested material is 0.032" thick x 38" wide and 12 feet long.

Fastener: #12-14 x 1¼" Type 2 Structural Drilling Fastener, carbon steel, zinc plate with ¾" O.D. heavy EPDM/ galvanized washer.



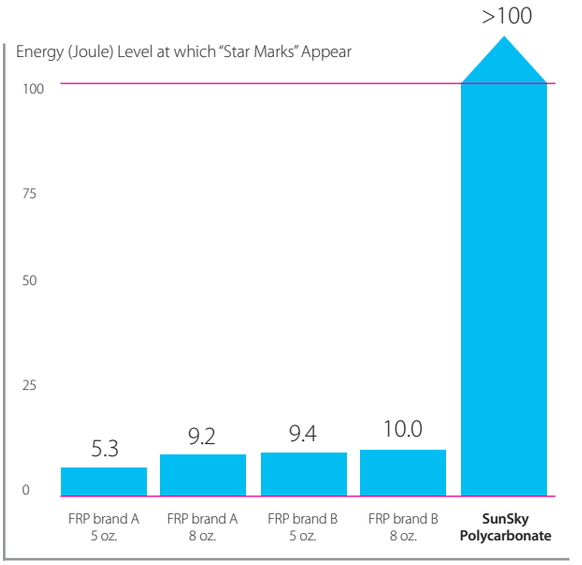
Test Results

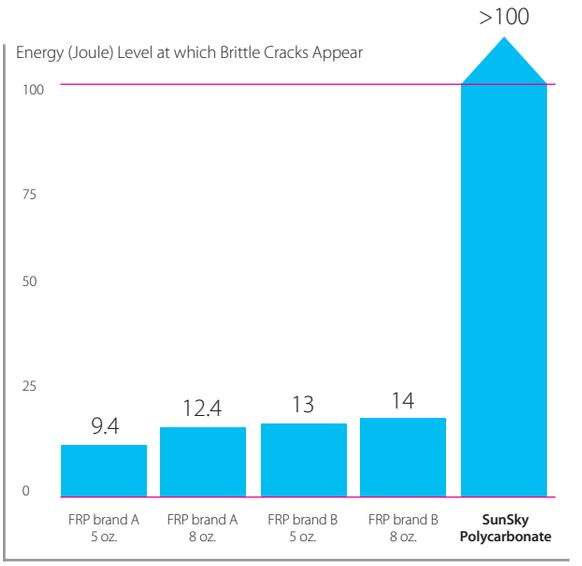
A buckled hip was visible during the test. The fasteners were in place and no cracks or breaks were found in the SunSky panels. The test assembly withstood all phases of test for Class 90. The roof assembly described in this report met the uplift test criteria specified in UL 580 - Test for Uplift Resistance of Roof Assemblies.

Note: The buckled hip returned to its original shape after testing with no panel damage or permanent deformation.

Hail Velocity

SunSky Corrugated Polycarbonate Panels demonstrate greater resistance to high-velocity impact (hail simulation test) than fiberglass panels.





Note: SunSky Corrugated Polycarbonate Panels remain ductile with no cracks or breaks at the maximum energy level at which this test is conducted: 100 Joules (1J=0.737 ft•lb)

Approvals

- UL - Construction No. 167 - File No. R18450
- Miami - Dade County Product Control* Approved Acceptance No. NOA 00-1226.02
  *Highest U.S. Code Standards
- FBC Approval: Pending (Call for updated info)
- City of Los Angeles - Research Report RR25298

Typical Physical Properties

	Property	Test Method	Value
Physical	Specific gravity	ASTM D-792	1.2
	Density (lb./ft.^{2})	ASTM D-1505	75
	Water Absorption, 24 hr. @ 73°F (%)	ASTM D-570	0.15
Mechanical	Tensile strength at yield, 0.4 in./min. (psi)	ASTM D-638	9,000
	Tensile strength at break, 0.4 in./min. (psi)	ASTM D-638	9,500
	Elongation at yield, 0.4 in./min. (%)	ASTM D-638	6
	Elongation at break, 0.4 in./min. (%)	ASTM D-638	>80
	Tensile Modulus, 0.04 in./min. (psi)	ASTM D-638	340,000
	Flexural Modulus 0.04 in./min. (psi)	ASTM D-790	380,000
	Flexural strength at yield, 0.04 in./min. (psi)	ASTM D-790	14,500
	Izod impact strength, notched (73°F), ft./lb./in.	ASTM D-256	1.5
	Impact falling weight, (ft.lb./in.)	ISO 6603/1[a]	37
	Rockwell hardness, R scale	ASTM D-785	118
	OSHA point–29	CFR 1910.23 (e) (8)[a]	Passed 200 lb.
	Uplift	UL 580[b]	Passed UL 90
Thermal	Optimal Temperature Range °F -40 to +210		
	U-Factor Summer	C-236	1.04
	U-Factor Winter	C-236	1.14
	Heat Deflection Temperature °F Load: 264 (psi)	ASTM D-648	275
	Coefficient of Linear Thermal Expansion 10^{-5}/°F	ASTM D-696	3.6
	Thermal Conductivity BTU in./(hr. ft^2 °F)	ASTM C-177	1.46
Flammability	Self-Ignition (°F)	ASTM D-1929	977
	Burning Extent	ASTM D-635	CC2 (<2.5 in.)
	Smoke Density (%)	ASTM D-2843	51
	Smoke Developed	UL 723 (E-84)[a]	47.0
	Flame Spread	UL 723 (E-84)[a]	4.7 (Class A)
	Melt Point (°F)	ASTM D-1519-95	420
Electrical	Dielectric Constant:		
	1kHz	ASTM D-150	2.6
	1MHz	ASTM D-150	2.4
	Dissipation Factor:		
	1kHz	ASTM D-150	0.005
	1MHz	ASTM D-150	0.02
	Dielectric Strength Short:		
	500 V/s (V/mil.)	ASTM D-149	520
	Surface Resistance:		
	Ketley (Ohm)	ASTM D-257	4.1 x 10^{15}
	Volume Resistance:		
	Ketley (Ohm-cm)	ASTM D-257	1.7 x 10^{17}
Optical	Visible light transmittance (%)		
	Clear	ASTM D-1003	90
	Soft White	ASTM D-1003	85
	Opal White	ASTM D-1003	45
	Haze/Diffusion (%)		
	Clear	ASTM D-1003	<1
	Soft White	ASTM D-1003	100
	Opal White	ASTM D-1003	100
	Yellowness Index)		
	Clear	ASTM D-1003	<1
	Soft White	ASTM D-1003	<3
	Opal White	ASTM D-1003	<1
	Shading coefficient		
	Clear	ASTM E424-71	1
	Soft White	ASTM E424-71	.96
	Opal White	ASTM E424-71	.56

[a] All the results depicted in this table were obtained by following the indicated ASTM method except where another method is indicated by the appearance of this symbol ([b])

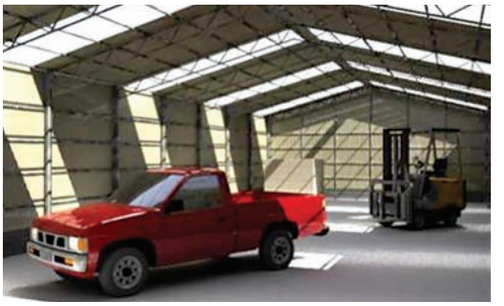
Increase Productivity while Reducing Energy Costs with...

SunSky Soft White

Let the beauty of natural sunlight in, without the harshness! Translucent SunSky Soft White panels allow 85% light transmission, for light that fills the room without unpleasant glare or the stark contrast of hard-edged shadows.

SunSky Soft White panels provide diffused, omni-directional ambient light, creating a more comfortable, worker-friendly environment for enhanced productivity. They're perfect for skylights, ridge lighting and vertical side lights all of which can decrease energy costs by reducing the need for daytime electric lighting. And the soft white coloration is co-extruded with the polycarbonate, so it will never peel or wear off.

SunSky Soft White is available in all of our standard or custom profiles.



Clear skylight panels can create a harsh indoor lighting environment, with glaring sunlight in some areas and stark shadows in others.

SunSky Soft White panels fill the room with natural light, for better all-around visibility and a more productive work area.

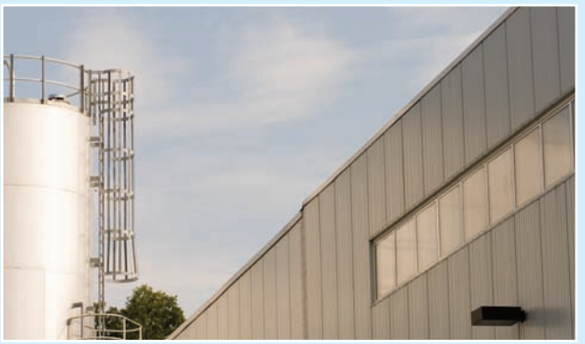
All of the features of our SunSky Clear panels...

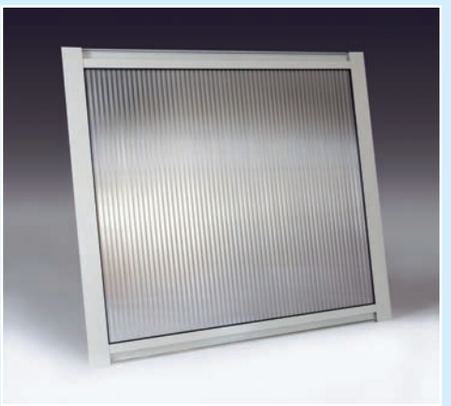
Without the Glare!

- 85% Light Transmission vs. 90% for Clear
- Soft/Diffused Light for a More Productive Environment
- Virtually Unbreakable • Blocks 100% of Harmful UV Rays
- Service Temperature Range for All Climates
- Light Weight • Easy to Install

Need Insulated side lights? Consider SUNLITE Multi-Wall Polycarbonate.

If you have an application that requires insulated side lights, consider SUNLITE® multi-wall polycarbonate. Because SUNLITE has multiple air spaces between the inner and outer surfaces, it provides excellent insulation. To learn more about equipping your building with SUNLITE, contact your Palram Distributor. Ask for our Applications Idea Sheet (form #1201).





Features at a Glance

- Energy saving design
- Rigid and light weight
- Highly impact resistant
- Up to 80% light transmission for maximum light
- Virtually unbreakable
- 10-year warranty
- Easy to install
- 100% UV protection
- 200 times stronger than glass

Chemical Resistance

The mechanism of chemical attack on polycarbonate sheets differs significantly from the mechanism of corrosion of metals. Corrosion of metals results in a gradual loss of surface material as a result of electrolytic action by the relevant chemicals. In the cases where chemical attack on polycarbonate sheet occurs, all or a portion of a range of effects can be observed. Ethylene chloride, chloroform, tetrachloroethane, m-cresol, pyridine and other chemicals can cause partial dissolution of polycarbonate. Swelling agents include benzene, chlorobenzene, tetralin, acetone, ethyl acetate, acetonitrile and carbon tetrachloride. Additional effects include color change and /or whitening. These effects may not always lead to product failure, especially for non-loaded sheets. Nevertheless, the level of measured mechanical properties will be reduced. The most critical effect of chemical attack is stress cracking or crazing, which may range in size from being visible to the naked eye to being only visible under a microscope. Stress cracks will always result in sheet failure which will emanate from areas of greatest stress (screws, fixings, bends, etc.)

Polycarbonate sheets are generally not recommended for use with acetone, ketones, ethers, and aromatic and chlorinated hydrocarbons in addition to aqueous or alcoholic alkaline solutions, ammonia gas and its solutions and amines.

Polycarbonate is resistant to mineral acids, many organic acids, oxidizing and reducing agents, neutral and acid salt solutions, many greases, waxes and oils, saturated, aliphatic and cycloaliphatic hydrocarbons and alcohols, with the exception of methyl alcohol. The resistance of polycarbonate to water may be described as good up to approximately 60°C. At higher temperatures, degradation occurs, the extent of which depends on time and temperature. Polycarbonate should therefore not be exposed for long periods of time to hot water. However, brief contact with hot water has no effect. For example, polycarbonate tableware can be washed over 1000 times in a dishwasher with no adverse effects.

The table that appears below lists the resistance of polycarbonate sheets to a number of commonly encountered chemicals and other corrosive media at room temperature (Information on chemical resistance at higher temperatures will be supplied upon request). Where the chemical resistance varies with concentration, the results of tests at different concentrations is presented. The information on chemical resistance is based on our research and experience (information on compatible adhesives can be found on page 18 of the SunSky Installation Guide), and serves as a basis for recommendation. Palram Americas does not guarantee chemical resistance unless specific separate, documentation is supplied.

For chemicals and corrosive media not depicted in the list, please contact your Palram Americas representative.

Chart Key:
R = Resistant LR = Limited Resistance N = No Resistance

Chemical	Concentration %*	Resistance
Acetaldehyde		N
Acetic Acid	10	R
Acetic Acid	25 (concentrated)	LR (N)
Acetone		N
Acetylene		R
Acrylonitrile		N
Ajax Detergent		R
Allspice		N
Allyl Alcohol		LR
Alum (Aluminum Ammonsium Sulfate)		R
Aluminum Chloride	Saturated	R
Aluminum Oxalate		R
Aluminum Sulfate	Saturated	R
Ammonia (Gas)		N
Ammonia (Aqueous)		N
Ammonium Carbonate		LR
Ammonium Chloride		R
Ammonium Fluoride		N
Ammonium Hydroxide		N
Ammonium Nitrate		R
Ammonium Sulfate	Saturated	R
Ammonium Sulfide		N
Amyl Acetate		N
Amyl Alcohol		LR
Aniline		N
Antimony Trichloride	Saturated	R
Aqua Regia (3 parts HCl:1 part HNO_3)		LR
Arsenic Acid	20	R
Automatic Switch Grease		R
Automotive Waxes		LR
Baby Lotion		R
Bacon Fat		R
Barium Chloride		R
Battery Acid		R
Beer		R
Beet Syrup		R
Benzaldehyde		N
Benzene		N
Benzoic Acid		N

Chemical	Concentration %*	Resistance
Benzyl Alcohol		N
Betadine		R
Bleach (Clorox)		R
Blood and Blood Plasma		R
Borax		R
Boric Acid		R
Brake Fluid		N
Bromine		N
Bromobenzene		N
Butane		R
Butter		R
Butyl Acetate		N
Butyl Alcohol (Butanol)		R
Butylene Glycol		R
Butyric Acid		N
Calcium Chloride	Saturated	R
Calcium Hypochlorite		R
Calcium Nitrate		R
Calcium Soap Fat		R
Camphor Oil		N
Carbolic Acid		N
Carbon Bisulfite		R
Carbon Dioxide Gas (Moist)		R
Carbon Disulfide		N
Carbon Monoxide		R
Carbon Tetrachloride		N
Castor Oil		R
Catsup (Ketchup)		R
Caustic Potash (Potassium Hydroxide)		N
Caustic Soda (Sodium Hydroxide)		N
Chlorine Gas (Dry)		LR
Chlorine Gas (Wet)		N
Chlorobenzene		N
Chloroform		N
Chocolate		R
Chrome Alum	Saturated	R
Chromic Acid	20	R
Cinnamon		R
Citric Acid	10	R

Chemical	Concentration %*	Resistance
Cloves		N
Coal Gas		R
Coca Cola		LR
Cocoa		LR
Cod Liver Oil		R
Coffee		LR
Cooking Oil		R
Copper Sulfate	Saturated	R
Cresol		N
Cupric Chloride	Saturated	R
Cuprous Chloride	Saturated	R
Cyclohexane		R
Cyclohexanol		LR
Cyclohexanone		N
DDT		R
Dekalin		R
Detergent (most)		LR or R
Developing Solutions		N or LR
Diamyl Phthalate		N
Diesel Fuel		R
Diethyl Ether (Ethyl Ether)		N
Dimethyl Formaldehyde (DMF)		N
Dimethyl Sulfoxide (DMSO)		N
Dinonyl Phthalate (plasticizer)		LR
Doctyl Phthalate (plasticizer)		LR
Dioxane		N
Diphyl 5,3		LR
Ethanol (Ethyl Alcohol) and Water	96	R
Ethanol (Ethyl Alcohol)	Pure	LR
Ethyl Amine		N
Ethyl Acetate		N
Ethyl Bromide		N
Ethylene Chloride		N
Ethylene Chlorohydrin		N
Ethylene Dichloride		N
Ethylene Glycol (Antifreeze)		LR
Ferric Chloride	Saturated	R
Ferrous Sulfate		R
Fish and Fish Oils		R

*concentration of aqueous solution except where noted

The chemical resistance information in this table is based on our research and experience and may be considered solely as a basis for recommendation, but not as a guarantee, unless specifically furnished as such by Palram Americas.

Chemical	Concentration %*	Resistance
Floor Polish		R
Formalin	10%	R
Formic Acid	10% (30%)	R (LR)
Freon TF		R
Freon (all others)		N
Fruit Juices and Pulp		R
Gasoline		N
Gear Oil		R
Glazers Putty		R
Glucose		R
Glycerine		R
Glycerol		R
Glycols		R
Glutaraldehyde	50%	R
Grease, Automotive (Most)		R
Heptane		R
Hexane		R
Hydrazine		N
Hydrochloric Acid	20 (Concentrated)	R (N)
Hydrofluoric Acid	20	R
Hydrogen Peroxide	30	R
Hydrogen Sulfide		R
Iodine (aqueous solution)	5	R
Iodine		N
Inks (Most)		R
Isoamyl Alcohol		LR
Isopropyl Alcohol		R
Kerosene		N
Lactic Acid	20	R
Lacquers and Thinners		N
Laundry Detergents (Most)		LR or R
Ligroin (Hydrocarbon Mixture)		R
Lime Solution (2%) or paste		R
Liquors or Liqueurs		R
Linseed Oil		R
Loctite		N
Lubricating Oils (Most)		LR or R
Machine Oils (Most)		R
Magnesium Chloride	Saturated	R
Magnesium Sulfate	Saturated	R
Manganese Sulfate	Saturated	R
Margarine		R
Mayonnaise		R
Meat		R
Mercuric Chloride	Saturated	R
Mercury		R
Methane		R
Methanol (Methyl Alcohol)	Pure	LR
Methylamine		N
Methylcellusolve		N
Methylene Chloride		N
Methyl Ethyl Keton (MEK)		N
Methylmethacrylate		N
Milk		R
Mineral Oil		R
Motor Oils (Most)		LR or R
Mustard		R
Naphtha (Stanisol)		N
Nickel Sulfate		R

Chemical	Concentration %*	Resistance
Nitric Acid	20	R
Nitrobenzene		N
Nitropropane		N
Nitrous Oxide		N
Nutmeg		N
Oleic Acid		R
Onions		R
Oxalic Acid	10	R
Oxygen		R
Ozone		N
Paprika		R
Paraffin		R
Pentane		R
Pepper		R
Perchloric Acid	10 (concentrated)	R (LR)
Perchloroethylene		N
Petroleum		LR
Petroleum Ether		LR
Petroleum Oil (Refined)		R
Phenol		N
Phosphoric Acid	10	R
Phosphorous Oxychloride		R
Phosphorous Pentoxide	25	LR
Phosphorous Trichloride		N
Polyethylene		R
Polyethylene Glycol		R
Potassium Acetate		LR
Potassium Aluminum Alum (Sulfate)	Saturated	R
Potassium Bichromate		R
Potassium Bromate		R
Potassium Bromide		R
Potassium Chloride	Saturated	R
Potassium Cyanide		N
Potassium Dichromate	Saturated	R
Potassium Hydroxide		N
Potassium Metabisulfite	4	R
Potassium Nitrate	Saturated	R
Potassium Perchlorate	10	R
Potassium Permanganate	10	R
Potassium Persulfate	10	R
Potassium Rhodanide	Saturated	R
Potassium Sulfate	Saturated	R
Propane		R
Propargyl Alcohol		R
Propionic Acid	20	R
Propionic Acid	Concentrated	N
Propyl Alcohol (1-Propanol)		R
Pyridine		N
Salad Oil		R
Salt		R
Silicofluoric Acid	30	R
Silicone Grease		R
Silicone Oil		R
Silver Nitrate		R
Soap (Ivory)		R
Sodium Bicarbonate	Saturated	R
Sodium Bisulfate	Saturated	R
Sodium Bisulfite	Saturated	R

Chemical	Concentration %*	Resistance
Sodium Carbonate	Saturated	R
Sodium Chlorate		R
Sodium Chloride	Saturated	R
Sodium Chromate		R
Sodium Hydroxide		N
Sodium Hypochlorite	5% Chlorine	R
Sodium Nitrate		N
Sodium Sulfate	Saturated	R
Sodium Sulfide		N
Sodium Thiosulfate		R
Spindle Oil		R
Stannous Chloride		R
Starch		R
Styrene		N
Sugar	Saturated	R
Sulfur Dioxide (Gas)		R
Sulfuric Acid	<50 (50<70)	R (LR)
Sulfurous Acid	10	N
Sulfuryl Chloride		N
Tapping Oil		R
Tartaric Acid	30	R
Tear Gas (Chloracetophenone)		LR
Terpineol		N
Tetrahydrofuran		N
Tetralin		N
Thiophene		N
Thyme		R
Titanium Tetrachloride		R
Tobacco		R
Toluene		N
Transformer Oils		R
Transmission Fluid		R
Trichloroacetic Acid	20	LR
Tricholorethylamine		N
Trichloroethylene		N
Trichloroethylphosphate		LR
Tricresylphosphite		N
Trisodium Phosphate		R
Turpentine		LR
Urea		R
Vacuum Pump Oil		R
Vanilla		R
Vanillin		R
Varnish		N
Vaseline		R
Vegetable Juices		R
Vegetable Oils		R
Vinegar		R
Water (Demineralized or Sea)		R
White Spirit		N
Wine, Whiskey, Vodka, Rum, Cognac		R
Witch Hazel		R
Worcester Sauce		R
Xylene		N
Zinc Chloride		R
Zinc Oxide		R
Zinc Stearate		R
Zinc Sulfate		R

*concentration of aqueous solution except where noted

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10-Year Limited Light Transmission Warranty*

It is warranted that for a period of 10 years, SunSky polycarbonate panels shall not lose more than 10% of their light transmitting capability, as a direct and exclusive result of the impact of solar radiation (as measured pursuant to the procedures specified in ASTM D-1003-77).

10-Year Limited Hail Damage Warranty*

It is warranted that for a period of 10 years, SunSky polycarbonate panels shall not break as a direct and exclusive result of the impact of hail measuring up to one inch diameter in size, and attaining up to 20 meters/sec. in velocity.

** This brochure contains statements of general company policy concerning customer satisfaction. There are no warranties which extend beyond that which are specifically set forth in the two limited warranties above.*

Palram Americas reserves the right to change product specifications and/or information contained in this brochure.

Also Available:

Suntuf® Corrugated Polycarbonate Panels, SunLite® Multi-Wall Polycarbonate Panels, and Palruf® PVC Panels for residential, agricultural and commercial applications.

For detailed installation instructions visit www.PalramAmericas.com/SunSky and download the SunSky Installation Guide, or call Palram Americas at (800) 999-9459 to request a printed copy.

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