

# POLARIZED LENS

## PolaSky

PC Polarized Lens

\*PC Polarized Injection Lens **for sunglass**

\*PC Polarized Bending Lens **for sunglass**

\*PC Polarized Photochromic Lens **for sunglass**

\*Polarized Tri-Acetate Lens **for sunglass**

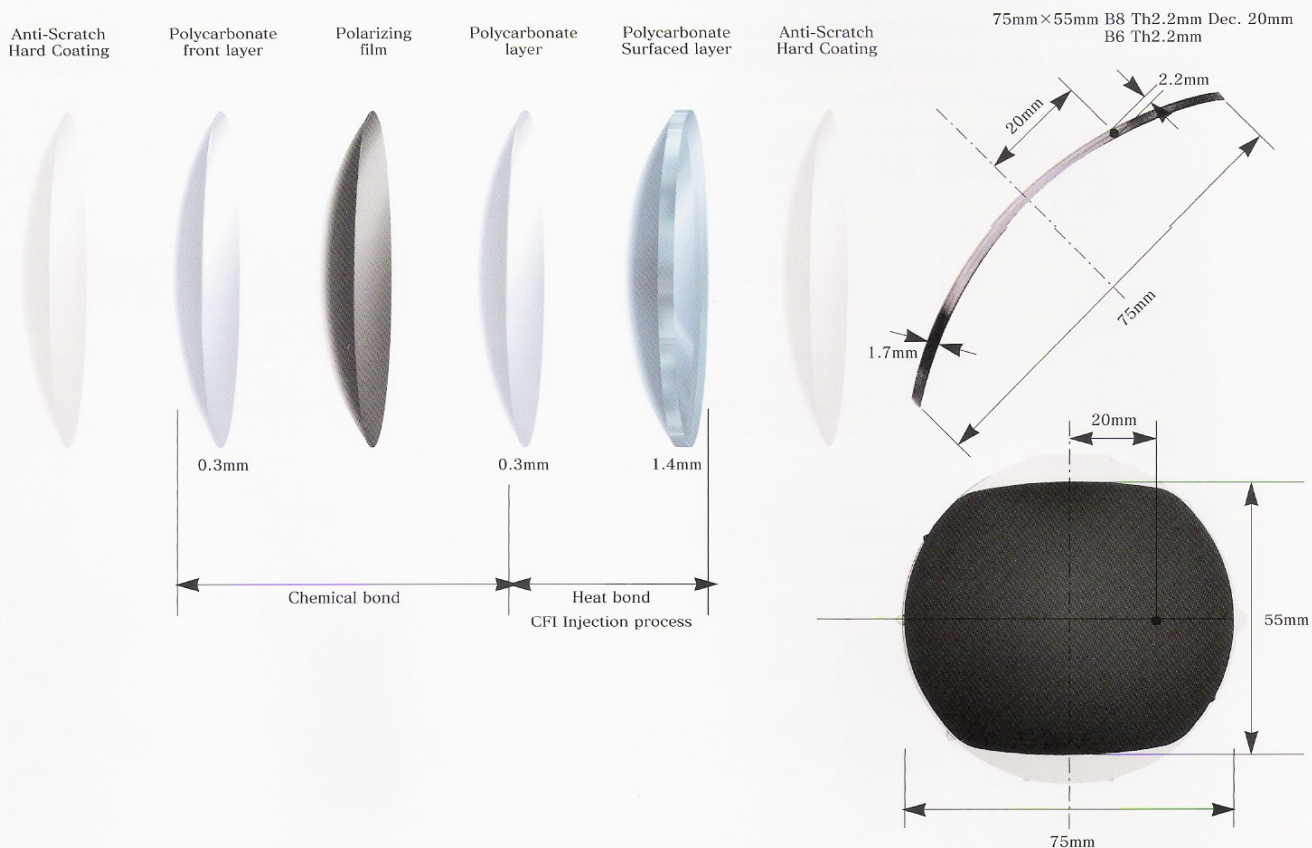
**SANKO** CO., LTD.



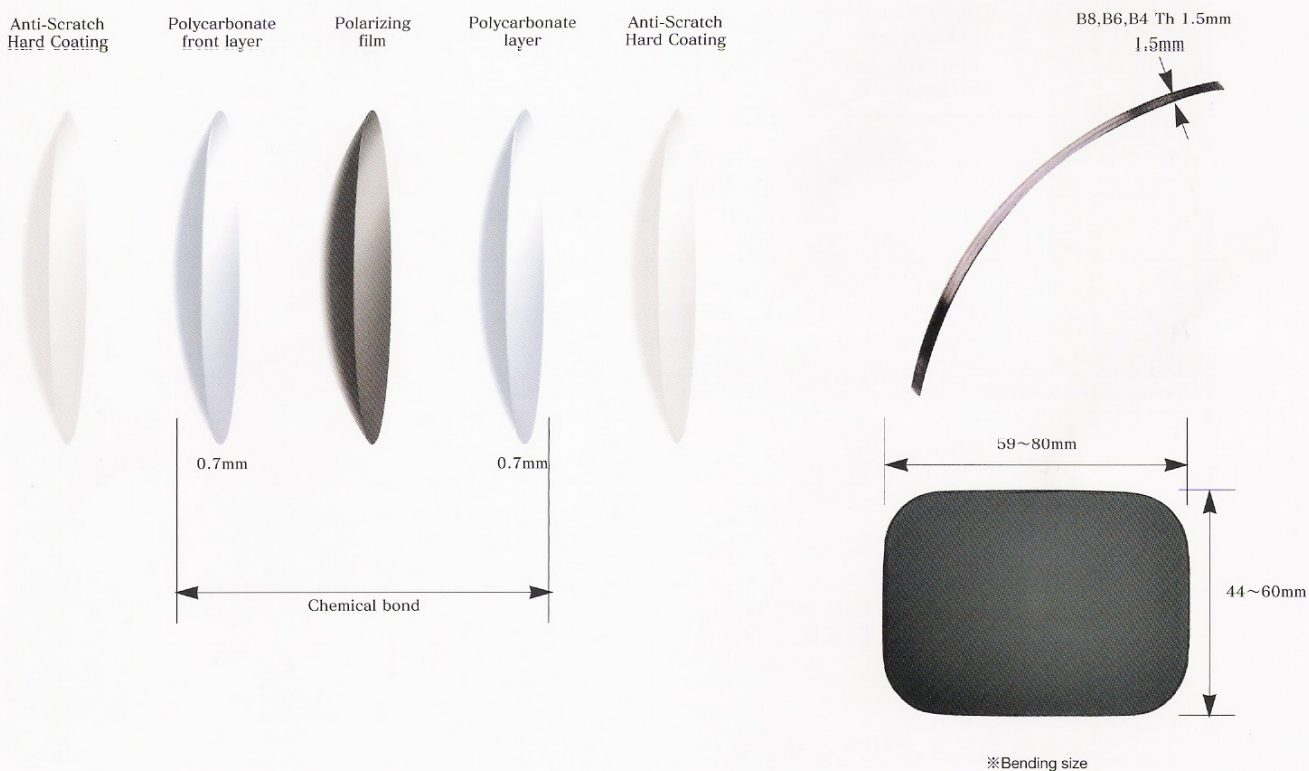
# WHAT IS PolaSky LENS?

## Polarized Lens

### Construction of injection lens



### Construction of bending Lens





# PolaSky WORLD OF POLARIZATION

**You can clearly see the world.**

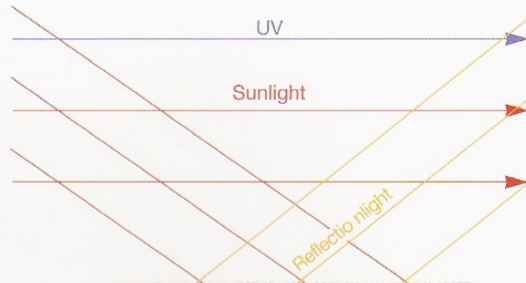
There are a lot of dazzling light not only directly from sun, but also from scattering reflection or refraction. Those lights always disturb our view.

Polarized lens regulates the dazzling light.

The Key is a polarized film laminated between 2 lenses, which acts like a window-shade and provides us clear vision.



Sunlight pours in all directions.



Dazzling light is created, reflecting from water surface.

Polarizing film



Reflection light and UV rays are blocked.



You can see clear world.

## The Characteristic of "PolaSky"

- gives you the clear sight which excludes a surface reflection of light.
- presents you vivid glow and natural contrast in color.
- cuts harmful ultraviolet rays and keeps the safety of your eyes.
- has the highest impact resistant.
- is excellent about the heat resistant and the color stability, and control degradation of the polarization.
- can be used for halfrim nylon frames or rimless frames as well.

regular lens



polarized lens










## PolaSky I THE POLYCARBONATE POLARIZED INJECTION LENS BY THE CFI PROCESS

It is a process of inserting pc polarized lens sheet and polycarbonate resin into a mould by the heat solvent injection. In the injection process, it is simultaneously added advanced function on the surface.

The polarizing films are covered and guarded by the pc lens sheets and the function of polarization is kept unchanged even if the lens is inserted into a frame. For the details of the CFI process, see <http://www.mep.co.jp/index.htm> (the technology and service>processing technology> CFI introduction.)

(1) PolaSky I PC POLARIZED INJECTION LENS											
Material	Polycarbonate (PC)										
Curve	6R · 8R										
Size	(TWO PIECE)										
	76φ Round type										
	The thickness:<6R>2.2mm / <8R>decentered 2.2mm~1.7mm (±0.1mm)										
Feature	1) Excellent impact resistance, which is incomparable in other plastic lenses 2) By CFI special process, pc resin and pc polarized sheet are injected 3) It is a epoch-making excellent lens which has a good surface balance and no power										
Color	Color	NO.	Visible %	Category	polarization %	Color	NO.	Visible %	Category	polarization %	
	Dark Smoke 	GS	11.0	3	99	Copper 	DR	17.0	3	99	
	Light Brown 	BBW	20.0	2	99	Smoke Green 	BGR	19.8	2	99	
Process	1) The lens sheet with the protection cover (Heat Resistant) 2) Cutting 3) Bending 4) The CFI injection process 5) Hard coating 6) Inspection 7) Color matching 8) Shipment										
Use for	 Please select suitable lenses.										
Remark	※Polarization is over 90% ※Ultraviolet ray transmittance is less than 0.1% ※Our lenses are all produced with Japanese lens material in Japan.										

☆Besides above, please refer to our Inspection Certificate, which will be provided in your need.



## PolaSky B PC POLARIZED BENDING LENS

Highly efficient polycarbonate polarized bending lens.

It is a epock-making super highly efficient polarized lens sheet which is used as polycarbonate protective layer.

It has the high durableness and polarizability with rich color variation, easy processing and the strongest impact resistant.











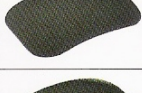


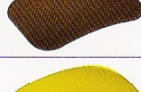
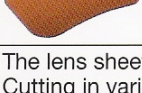








Under the severe condition, it doesn't make defective appearance such as the lamination-off, the tear of polarizing device, and is very excellent about the dimensional stability.

Please refer to our data below which we experimented.

The variability of the polarization is less than 1%. Also the color interference fringe is controlled by our special manufacturing method.

The heat-resistant test 120℃	1000hours	The cold resistant test -20℃	1000hours
The 80℃ 95% RH moisture resistant test	1000hours	The carbon arc test	500hours








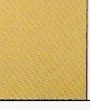
※ Above data are experimental values but not security values.

(2) PolaSky B		PC POLARIZED BENDING LENS											
Material	Polycarbonate (PC)												
Curve	4R · 6R (ONE PIECE)						(4R) · 6R · 8R (TWO PIECE)						
Size	Any size available (Over 40mm a side) The thickness:1.5mm												
Feature	1) Excellent impact resistant, which is incomparable in other plastic lenses 2) Remove over 99% of Ultraviolet Rays 3) Many color variation												
Color	Color		NO.	Visible %	Category	polarization %	Color		NO.	Visible %	Category	polarization %	
	Light Smoke		G-35 (M)	35	2	90	Brown		BW (M)	18	3	99	
	Smoke		SG (M)	22	2	99	Brown		BS (M)	12	3	99	
	Smoke		GRYU (M)	16	3	99	Dark Green		G-15 (M)	16	3	99	
	Dark Smoke		NGY (M)	18	3	99	Green		MG (M)	17	3	99	
	Dark Smoke		GS (M)	11	3	99	Light Smoke		S-1301 (T)	28	2	98	
	Dark Smoke		GSR (M)	11	3	99	Brown		B-6221 (T)	18	2	99	
	Dark Smoke		GRM (M)	14	3	99	Dark Brown		B-6121 (T)	11	3	99	
Copper		DR (M)	18	2	98	Yellow		Y-8341 (T)	32	2	92		
Process	1) The lens sheet with protection cover (Heat Resistant) 2) Cutting in various sizes 3) Bending 4) Peeling the protection cover off 5) Inspection 6) Color matching 7) Shipment												
Use for	<div></div> <div>Please select suitable lenses.</div>												
Remark	※ Polarization is over 90% ※ Ultraviolet ray transmittance is less than 0.1% ※ Our lenses are all produced with Japanese lens material in Japan.												



## PolaSky T TRI-ACETATE POLARIZED LENS

It is thinner and lighter in weight, and the bending process is easy.  
It is a multipurpose inexpensive lens and used in various sunglasses such as a clip-on frame and an over glass or for one-piece and two-piece.

(3) PolaSky T TRI-ACETATE POLARIZED LENS														
Material	Tri-acetate													
Thickness	0.8mm / 1.0mm													
Curve	4R · 6R							4R · 6R · 8R						
Size	(ONE PIECE)							(TWO PIECE)						
	any sizes available													
Feature	1) Thinner 2) lighter weight 3) Easy cutting 4) Reasonable price													
Color	Color		NO.	Visible %	Category	Thickness mm	polarization %	Color		NO.	Visible %	Category	Thickness mm	polarization %
	Light Smoke		NC-82	44	1	0.8	95	Dark Green Smoke		NCS-1	7	4	0.8	99
	Dark Smoke		NC-28	17	3	0.8 1.0	99	Light Brown		NC-4	22	2	0.8 1.0	99
	Light Green		NC-1	27	2	0.8	99	Dark Brown		NCA-4	12	3	0.8 1.0	99
	Green Smoke		NCS-3	15	3	0.8 1.0	99	Amber		NCY-4	22	2	0.8	99
Process	1) The lens sheet with the protection cover (Heat Resistant) 2) Cutting in various sizes 3) Bending 4) Peeling the protection cover off 5) Inspection 6) Color matching 7) Shipment													
Remark	※Polarization is over 90% ※Ultraviolet ray transmittance is less than 0.1% ※Our lenses are all produced with Japanese lens material in Japan.													

☆Besides above, please refer to our Inspection Certificate, which will be provided in your need.



## FEATURES OF PC POLARIZED LENS

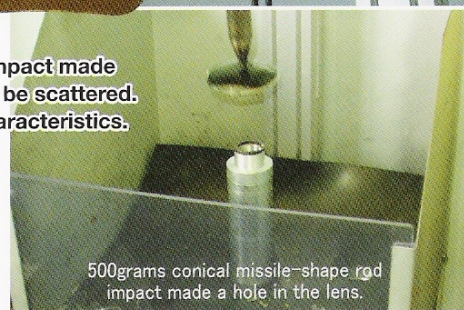
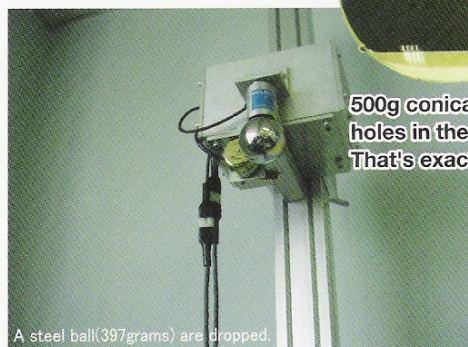
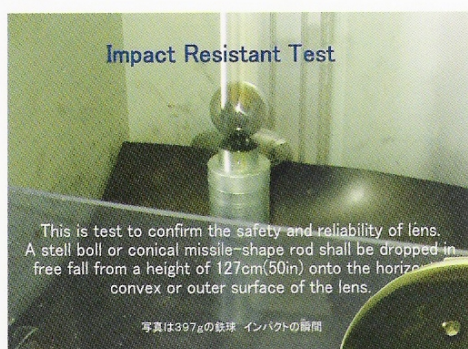
1. Polarization Effect : block dazzling lights from water, snow or road
2. PC Material : protect your eyes by the best impact-resistant lens material
3. UV Light Cut : shut harmful ultraviolet ray out (280~380nm)
4. High Adhesion : avoid lamination off
5. Less Discoloration : keep clear

## NATURE OF PC MATERIAL

### IMPACT RESISTANCE

	FDA STANDARD	CR-39	ACRYLIC	OPHTHALMIC LENS	POLYCARBONATE
DESTRUCTIVE ENERGY	0.2	0.37	0.15	0.2	10.2

unit: Jou (investigated by own data)



### HEAT RESISTANCE

75°C hot water test	50 hours	No change in external appearance
Boiling test	30 minutes	
Heating & Cooling cycle test	-20°C to 80°C ten cycles	
HEAT RESISTANCE	100°C 100 hours	

\* The measurements above are for a test material (3mm) using an MROX skin film and S3000 core material

\* The measured values are not guaranteed.

### CHEMICAL RESISTANCE

Aceton	After soaking filter paper in the chemical, the filter paper and test material are placed in contact for one minute. Then external changes are visually verified.	No change in external appearance
Methanol		
Methylene Chloride		
30% Sulphuric Acid		
37.5% Caustic Soda		





Why don't you try NEW POLARIZED world?  
You can clearly see the world.

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