

Welif LENS



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■ **Strength (Safety)**

Strength of Polycarbonate is 250times stronger than tempered glass and 50times stronger than acrylic.

■ **Transmission**

Weliflens's penetration ratio is about 99.5%.
It helps people to look at objects more clearly, specially more helpful to the people who have a trouble to see in the night.

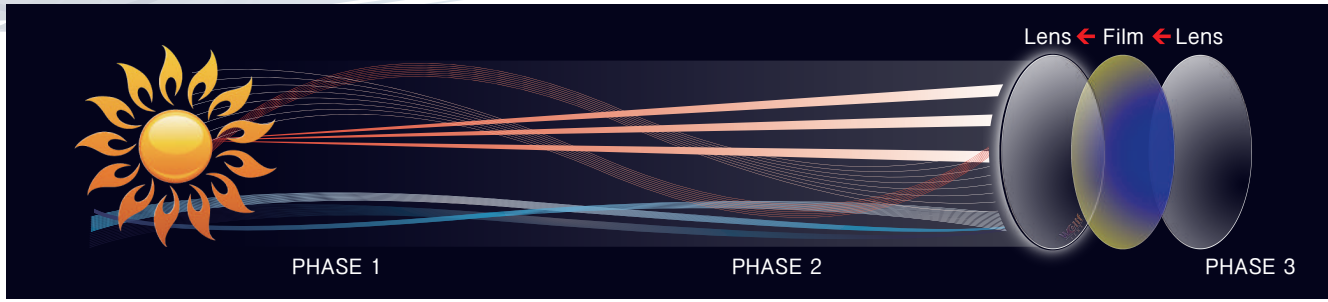
■ **Index**

Weliflens is most thin and light among 1.59 high index lenses.

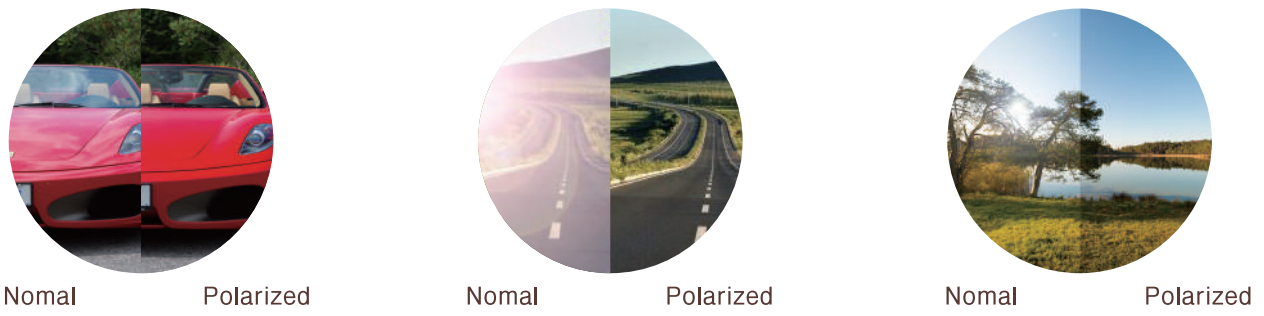
■ UV 400nm 100% Protection



Polarized Lens

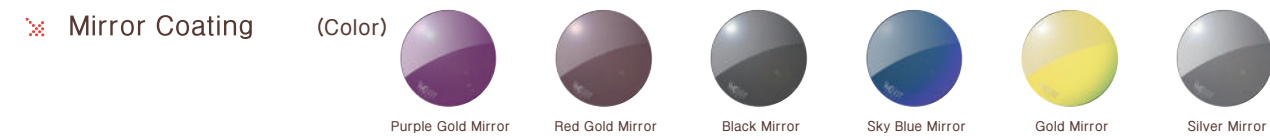


- ❌ PHASE 1 Light waves are Scattered in many different directions.
- ❌ PHASE 2 Reflected light is aligned into horizontal waves.
- ❌ PHASE 3 The polarized lens blocks horizontal waves, reducing glare transmitting only useful light.



Coating

- ❌ Hard Coating, Tintable Hard – Coating
- ❌ AR Coating
- ❌ Crystal Coating



Color

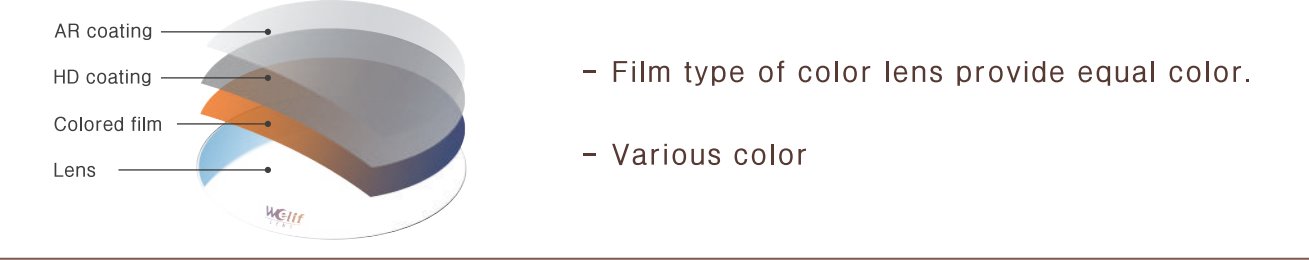


Technical data

Color	Color concentration(%)	Transmittance(%)	Polarized rate(%)
Gray	82	18	99
Brown	82	18	99

Color Lens

Inmold Injection Process



- Film type of color lens provide equal color.
- Various color

Color



Polarized/ Photochromic/ Color Lens Technical data

Semi - Finished Single Vision 80mm

Nominal	Front			Back		j/h	Thickness	
	Radius	Radius	50mm	Radius	50mm		mm	ET
Front Curve	1,586	1,530	0,266	7,02	83,464	3,832	8,7	18,48
0,5	1172,000	1060,000	0,266	7,02	83,464	3,832	8,5	17,34
1,0	586,000	530,000	0,533	7,02	83,464	3,832	8,2	14,43
2,0	293,000	265,000	1,068	7,02	83,464	3,832	8,2	14,43
3,0	195,333	176,666	1,606	7,02	83,464	3,832	8,7	13,34
4,0	146,500	132,500	2,148	7,02	83,464	3,832	8,6	13,24
5,0	117,200	106,000	2,697	7,02	83,464	3,832	8,5	11,67
6,0	97,666	88,333	3,254	7,02	83,464	3,832	8,3	9,94
7,0	83,714	75,714	3,820	7,02	83,464	3,832	9,0	9,03
8,0	73,250	66,250	4,398	7,02	83,464	3,832	9,5	7,82
9,0	66,111	58,888	4,990	7,02	83,464	3,832	10,5	6,97
10,0	58,600	53,000	5,600	7,02	83,464	3,832	11,0	5,43

CT & ET +0.3mm

Semi - Finished Single Vision 75mm

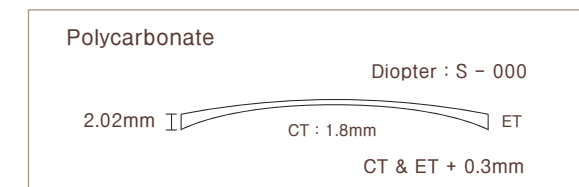
Nominal	Front			Back		j/h	Thickness	
	Radius	Radius	50mm	Radius	50mm		mm	ET
Front Curve	1,586	1,530	0,266	7,02	83,464	3,832	8,7	16,30
0,5	1172,000	1060,000	0,266	7,02	83,464	3,832	8,5	15,07
1,0	586,000	530,000	0,533	7,02	83,464	3,832	8,2	14,43
2,0	293,000	265,000	1,068	7,02	83,464	3,832	8,2	14,43
3,0	195,333	176,666	1,606	7,02	83,464	3,832	8,7	13,57
4,0	146,500	132,500	2,148	7,02	83,464	3,832	8,6	12,08
5,0	117,200	106,000	2,697	7,02	83,464	3,832	8,5	10,54
6,0	97,666	88,333	3,254	7,02	83,464	3,832	8,3	8,84
7,0	83,714	75,714	3,820	7,02	83,464	3,832	9,0	7,96
8,0	73,250	66,250	4,398	7,02	83,464	3,832	9,5	6,76
9,0	66,111	58,888	4,990	7,02	83,464	3,832	10,5	5,92
10,0	58,600	53,000	5,600	7,02	83,464	3,832	11,0	4,35

CT & ET +0.3mm

Technical Data

Index	FSV(Finished Single Vision)
Index	1.59
Diameter	75mm/80mm
Weight	1.2g/cc
Transmission	98-99%(AR)
Abbe Value	32
UV 100%	400nm

Thinnest Lens Available



Photochromic Lens

Inmold Injection Process



Welif Photochromic Lens is clear lens inside and color lens outside by responding to UV from sunshine. Our photochromic is film type, not like chemical coating. It preserve its own function forever.

Color

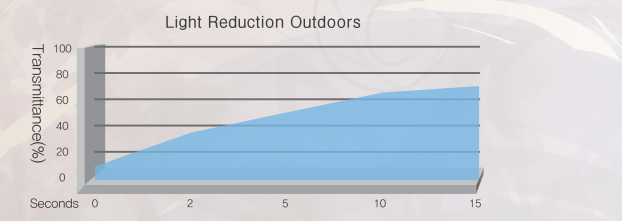


Feature of Photochromic Lens



Detailed Information of Photochromic Lens

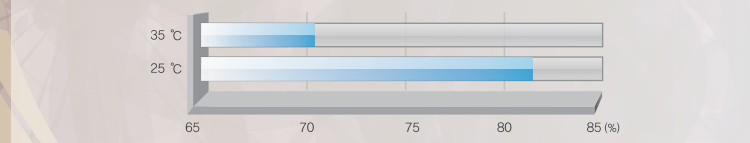
Fast Color changes



UV 400nm 100% Blocking (UVA, UVB)



Light transmittance (Darkness and Hot Temperature)



Finished Single Vision / SFSV

- Welif Hard - coat**
Finished Single Vision Stock Weliflens with Superior Non-Tintable Hard Coating. Excellent choice for base lens to be AR Coated later or used as clear non-tintable.
- Welif AR**
Finished Single Vision Stock Weliflens with AR and Hydrophobic Topcoat. Our Standard AR Which has been vacuum deposited with enhanced adhesion and scratch resistant properties. Excellent for everyday use.
- Welif Tintz™**
Finished Single Vision Stock Weliflens with a special Hard Coating "WelifTintz" that allow for superior scratch resistance yet can tint to Sunglass density.
- Welif Crystal-Coat™**
Finished Single Vision Stock Weliflens with enhanced super AR, Hydrophobic / Oleophobic Crystal-Coat comes standard with "Skin-Tight" which is a special, Water removable lenswrap that eliminates slippage during the edging process.

FSV production range

70mm Minus on Minus Cylinder(-on-) Product Range									65mm Plus on Cylinder(+on-) Product Range								
CLY(-ON-)									CLY(+ON-)								
SPH	CYL	ASPH	SA	ASPH	SA	CT	ET	CT	ET	CT	ET	CT	ET	CT	ET		
0,00						0,00											
0,25						0,25											
0,50						0,50											
0,75						0,75											
1,00						1,00											
1,25						1,25											
1,50						1,50											
1,75						1,75											
2,00						2,00											
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6,75						6,75											
7,00						7,00											
7,25						7,25											
7,50						7,50											
7,75						7,75											
8,00						8,00											

FSV spherical

INDEX OF REFRACTION 1.59
UV 380NM 100%
DIAMETER 65/70mm

SPH(+0,25-+0,40) CLY(-0,00-0,00)	Front Curve				Back Curve				CT	ET
	Front Curve	Back Curve	CT	ET	Front Curve	Back Curve	CT	ET		
(+0,00)	500	527	1,70	1,48	500	527	1,70	1,73		
(+0,25)	500	527	1,70	1,48	500	527	1,70	1,90		
(+0,50)	525	477	1,80	1,34	525	477	1,80	2,08		
(+0,75)	500	500	1,95	1,27	500	500	1,95	2,27		
(+1,00)	475	577	2,10	1,18	475	577	2,10	2,45		
(+1,25)	450	600	2,25	1,09	450	600	2,25	2,63		
(+1,50)	425	625	2,40	1,01	425	625	2,40	2,80		
(+1,75)	400	650	2,55	0,93	400	650	2,55	2,97		
(+2,00)	375	675	2,70	0,85	375	675	2,70	3,15		
(+2,25)	350	700	2,85	0,77	350	700	2,85	3,32		
(+2,50)	325	725	3,00	0,70	325	725	3,00	3,50		
(+2,75)	300	750	3,15	0,63	300	750	3,15	3,67		
(+3,00)	275	775	3,30	0,57	275	775	3,30	3,85		
(+3,25)	250	800	3,45	0,51	250	800	3,45	4,03		
(+3,50)	225	825	3,60	0,46	225	825	3,60	4,21		
(+3,75)	200	850	3,75	0,41	200	850	3,75	4,39		
(+4,00)	175	875	3,90	0,37	175	875	3,90	4,57		
(+4,25)	150	900	4,05	0,33	150	900	4,05	4,75		
(+4,50)	125	925	4,20	0,30	125	925	4,20	4,93		
(+4,75)	100	950	4,35	0,27	100	950	4,35	5,11		
(+5,00)	75	975	4,50	0,24	75	975	4,50	5,29		
(+5,25)	50	1000	4,65	0,22	50	1000	4,65	5,47		
(+5,50)	25	1025	4,80	0,20	25	1025	4,80	5,65		
(+5,75)	0	1050	4,95	0,18	0	1050	4,95	5,83		
(+6,00)	-25	1075	5,10	0,17	-25	1075	5,10	6,01		
(+6,25)	-50	1100	5,25	0,16	-50	1100	5,25	6,19		
(+6,50)	-75	1125	5,40	0,15	-75	1125	5,40	6,37</		