

Essilor Sunwear Collection 2019

#1 IN SPECTACLE LENSES WORLDWIDE*

* Euromonitor, Eyewear 2019 edition, Essilor International SA Company, Retail value sales at RSP.

CONTENTS



Polarised sun lenses for the **best visual comfort** and maximum protection against glare



See colours as they should be seen



A wide range of fashion mirrors

REACT TINT

Sunlight is constantly changing

SUNMAX

For large and wrap frames

**SILVER SHADOW
CLEAN TOUCH**

A more subtle flash mirror with wide availability



E-SPF and UV protection



Sun treatments

Taking protection to the highest level



All you need to know about **protection and usage**

ESSILOR SUNWEAR COLLECTION

PRESCRIPTION SUN LENSES FOR EVERY OCCASION

In this brochure, we cover all sun lens products and services that can be found in the Essilor sunwear range including the very latest tints as well as our new mirror range.



The sunwear market is constantly changing to meet the demands of wearers. Awareness of the dangers of UV rays is now greater than ever and consumers realise the need for visual protection as well as keeping up with the latest fashion.

Essilor offers a wide range of Sunwear solutions from polarised to mirror lenses. They provide wearers with a wide range of benefits, including great protection without compromising on fashion and style.

As with all Essilor products, the success of the range rests in the quality of the products and the excellent service that Essilor provides.

THE IMPORTANCE OF UV PROTECTION

A HIGH LEVEL OF AWARENESS AMONG CONSUMERS

A survey conducted by Essilor shows that consumers have a high level of awareness about the dangers that UV radiation can cause to the eyes.



of people agree with the fact that **UV rays can cause irreversible damage to their skin**



of people agree with the fact that **UV rays can cause irreversible damage to their eyes**

THE EXPECTATIONS OF PRESCRIPTION SUN LENSES

KEY FACTORS THE CONSUMER LOOKS FOR

In the same survey, consumers told us about the most important criteria when choosing their prescription sun lenses. The results below highlight the factors that are most important when purchasing prescription sunglasses.



N°1



Vision quality

N°2



Importance of UV protection

N°3



Protection against glare

XPERIO POLARISED SUN LENSES

THE BEST VISION UNDER THE SUN

With standard tinted lenses, visual fatigue and headaches can occur. Xperio polarised lenses eliminate bothersome glare, offering increased visual comfort.



Xperio is Essilor's innovative brand for polarised lenses. Xperio lenses represent a real step forward in terms of quality of vision. In addition to providing protection against UVA and UVB rays, Xperio lenses at last give effective protection against the glare caused by reflected sunlight.

Patient benefits for greater comfort and safety outdoors

- Glare reduction
- Enhanced colour perception
- Improved contrast
- Greater visual comfort
- E-SPF 50+ when combined with Crizal Sun UV / Optifog Sun UV



WITH STANDARD TINTED LENSES



WITH XPERIO LENSES

XPERIO POLARISED SUN LENSES

THE BEST VISION UNDER THE SUN

The difference comes from Essilor's lens design expertise. Xperio polarised is available across a wide range of designs, including Varilux X series and Varilux E series.

Xperio polarised lenses are available with Crizal Sun UV and Optifog Sun UV.

Ideal for all spectacle wearers for several different uses

- **For driving***
Polarised lenses offer increased safety. They eliminate the glare produced by reflections on wet road surfaces, dashboards and other cars.
- **For sports**
Particularly useful for water sports (such as sailing and fishing) and winter sports, whenever the eyes are under constant stress from the sunlight reflected by flat surfaces (water, snow and ice).

*Not suitable for night driving (class 3 - 15% LTF).

- **For greater comfort**
In both summer and winter, wearers can rediscover the pleasure of better vision under all circumstances. Colours appear more vibrant and once they have tried these lenses, they will not want anything else.
- **For protection**
For light-sensitive eyes, particularly for older people and those who have had ocular surgery (refractive or cataract), who need maximum protection!

All Xperio polarised sun lenses when combined with Crizal Sun UV / Optifog Sun UV provide the ultimate protection, E-SPF 50+.



** E-SPF® is an index rating the overall UV protection of a lens. E-SPF® was developed by Essilor International and endorsed by 3rd party experts.
Lens performance only. The E-SPF® index excludes direct eye exposure that depends on external factors (wearer's morphology, frame shape, position of wear).

The Xperio range

| | Brown | Grey | Grey Green | Blue Purple | Violet | Blue Sky | Blue Ink |
|-----------------------|-------|------|------------|-------------|--------|----------|----------|
| Classes of protection | | | | | | | |
| NEW Class 4 | | | | | | | |
| Class 3 | | | | | | | |
| Class 3/2 | | | | | | | |

Xperio® polarised lenses eliminate harsh, blinding glare from highly reflective surfaces to increase visual comfort and performance.

***Xperio Colours lenses are available in Orma 1.5 in:
Spheric Single Vision / Varilux Physio 2.0 / Varilux Comfort New Edition / Varilux Liberty New Edition

ESSICOLOUR

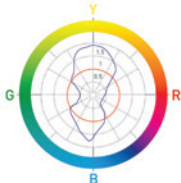
NOT JUST ANY TINT

Tinted sunglasses offer good protection from glare but most of them alter colour perception and create colour distortion which increases with the intensity of the tint. The Essicolour range has been designed in collaboration with the Natural History Museum in Paris using the colour rendering index, allowing the wearer to perceive colour naturally.



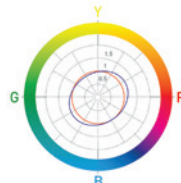
*Source: Essilor, Ipsos, sunwear usage and attitudes study, 2012, France, Italy, US

Colour Rendering Index developed to respect natural colour balance



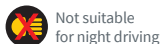
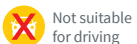
Transmission through a standard grey lens in class 3

Transmission through a clear lens










































Transmission through an Essilor grey lens in class 3

Transmission through a clear lens



THE ESSICOLOUR RANGE

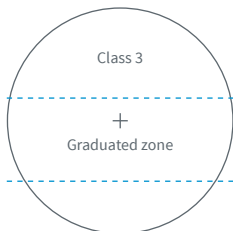
A RANGE TO MEET ANY INDIVIDUAL PREFERENCES

| Full tints | | | | | | |
|--|---|---|---|---|---|---|
| | Black | Brown | Grey | Grey/Green | Blue Ink - <i>NEW</i> | Burgundy** - <i>NEW</i> |
| Class 4* 5% LTF  |  |  |  |  |  |  |
| Class 3 15% LTF  |  |  |  |  |  |  |
| Class 2 25% LTF  |  |  |  |  |  |  |
| Class 2 38% LTF  |  |  |  |  |  |  |
| Class 1 65% LTF  |  |  |  |  |  |  |
| Class 0 82% LTF |  |  |  |  | | |

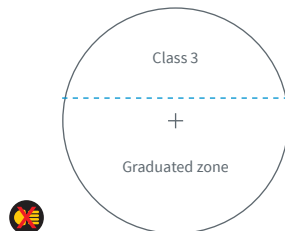
| Graduated tints | | | | | | |
|--|---|---|---|---|---|---|
| | Black | Brown | Grey | Grey/Green | Blue Ink - <i>NEW</i> | Burgundy** - <i>NEW</i> |
| Class 3 15% LTF  |  |  |  |  |  |  |

Sun gradient

Regular version



Long version *NEW*



*Full tint Class 4 and graduated tints not available on Airwear 1.59. For full range availability, please refer to the Essilor Lens Catalogue.
 **Burgundy does not feature Colour Rendering Index technology.

E-MIRROR UV

PERFORMANCE AND FASHION BY ESSILOR

For patients making a statement, our e-Mirror UV lenses provide a wide array of colours across our top designs.



Essilor's range of mirrors, e-mirror UV

These new mirrors come in two densities, 38% LTF (Class 2) or 15% LTF (Class 3). When applied to a class 3 tint or Xperio, the result will be a bright colour. When applied to a class 2 tint or Xperio, the mirror will have a softer colour.

Availability

Material:

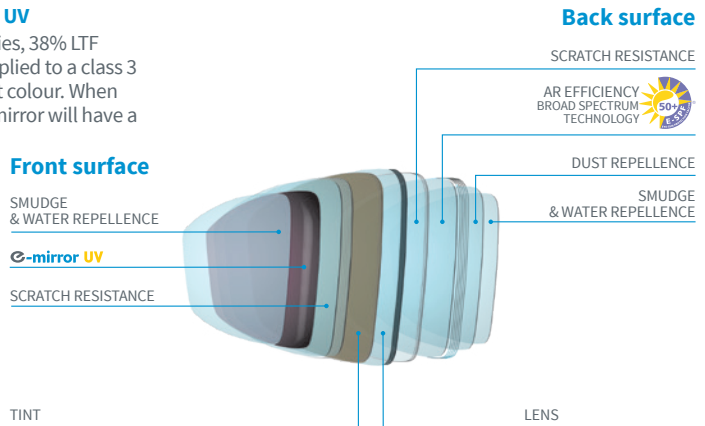
- Ormix 1.6
- Airwear 1.59
- Orma 1.5

Coating:

- Crizal Sun UV as standard

Design:

- Single Vision
- Varilux X series
- Varilux E series
- Varilux Liberty NE



The e-mirror UV doesn't affect light transmission

THE E-MIRROR UV RANGE

PERFORMANCE AND FASHION BY ESSILOR

NOW AVAILABLE WITH
Xperio
 polarised sun lenses

Bright mirror collection - class 3

Applied to a brown Xperio / tinted lens



Orange



Bronze

Applied to a grey Xperio / tinted lens



Silver



Violet



Ocean Blue



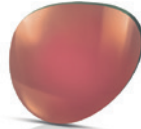
Forest Green



Candy

Soft mirror collection - class 2

Applied to a brown tinted lens



Orange



Bronze

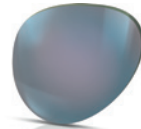
Applied to a grey tinted lens



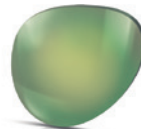
Silver



Violet



Ocean Blue



Forest Green



Candy

Important information

- Not suitable for driving - Turquoise class 2 and 3
- Not suitable for night driving - all class 2 and 3 tinted lenses
- Not suitable for day or night driving - Candy class 2 and 3 on Ormix 1.6

Please note that mirror colours may vary slightly compared to samples.

For full range availability, please refer to the Essilor Lens Catalogue or visit ecp.essilor.co.uk

REACT TINT

SUNLIGHT IS CONSTANTLY CHANGING

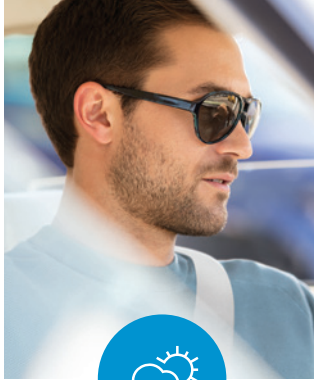
React tint lenses use auto-responsive tint technology to adjust their level of tint from dark to darker depending on the intensity of sunlight.

This means the lenses do the work, constantly adapting to changing light conditions for crisp, comfortable vision, so your patients can focus on the activity at hand, no matter what comes their way.

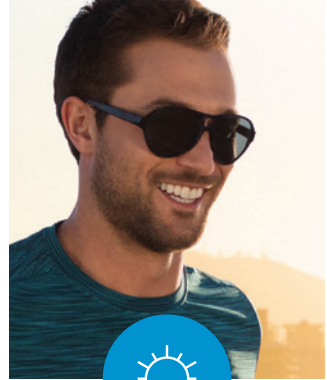


A light tint for clear, detailed vision even in the shade and on overcast days

Tinted: Blocks at least 50% of visible light*



Constantly adjusts to outdoor light, even in the car, providing comfort and protection against glare



Superior darkness in bright sunlight providing the ultimate in comfort

Tinted: Blocks at least 89% of visible light*

React Tint lenses provide patients with...



Improved vision with uninterrupted comfort

Auto-responsive tint technology allows optimal light transmission, even in low sunlight conditions



Freedom to enjoy every moment in the sun

Increased convenience so your patients can wear sunglasses all day outside and focus on the activity at hand



Continuous UV protection

All-day UV protection, even in partly sunny, cloudy or low sunlight conditions

*The transmission range is for the gray SUN React lenses.

The visible light transmission of Sun React lenses can vary depending on the color of the tint and also the lens material.

DIFFERENT SITUATIONS, DIFFERENT VISUAL NEEDS

LENSES WHICH ADAPT WITH YOUR SITUATION

Did you know...

87% of the surveyed consumers engage in disruptive behaviors or go without protection to deal with changing light conditions.*

60%

of patients put their sunglasses on top of their head

38%

go without sunglasses at all

32%

switch between regular eyeglasses and sunglasses

Sunlight is constantly changing

Your patients will face varying light conditions in the course of a single day. From the morning dog walk, to commuting to work, from lunch in a shaded cafe on a bright sunny day to an after-work run – your patients might often find their sunglasses either too light or too dark depending on the situation, causing discomfort.



Alfresco dining



Holiday adventure



Hiking on a trail



Sporting events



Driving



Commuting to work



Changing weather



Gardening at home



Cycling

* Source: Dec 2015 / The Transitions® Adaptive Sunglasses Selection Survey polled 1,001 Americans ages 18+ who wear sunglasses at least once per week; *wearers excl. those who wear Transitions lenses

SUNMAX

FOR LARGE DIAMETERS AND HIGH WRAP FRAMES

Perfect for sport performance and large sunglasses, the SunMax lens has been specifically developed to deliver perfect vision in high base curve frames and large diameters. By applying the latest in lens technology, aberrations and distortion in high base curves are eliminated leaving the wearer with perfect vision and lasting comfort.



Ideal for situations such as



Large frames



Cycling



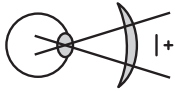
Hiking on a trail



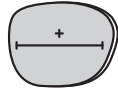
Sports

SUNMAX

FOR LARGE DIAMETERS AND HIGH WRAP FRAMES



High base curves
6, 7 & 8 Diopters



High diameter
up to 100mm



Prismatic compensation
to avoid eyestrain due
to gaze deviation on
wrap frames



Optical compensation
to eliminate peripheral
distortion and
power errors

Mandatory frame data when ordering

In order to manufacture the lenses, we require two points of data specific to the frame selected.

Step one – measure the wrap angle

Step two – measure the base curve using the lens clock available from www.meyestore.co.uk

Step three – order via:

- e-Store
- Fax
- Phone

Availability

Material:

- Ormix 1.6
- Airwear 1.59

Coating:

- Crizal Sun UV
- Optifog Sun UV

Design:

- Single Vision
- Varilux SunMax

Colour availability

| Xperio | | | Essicolour | | | Flash Mirror |
|--------|------|------------|------------|------|------------|------------------------------|
| | | | | | | |
| Brown | Grey | Grey/green | Brown | Grey | Grey/green | Silver Shadow Clean Touch |

SILVER SHADOW CLEAN TOUCH

A SEMI TRANSPARENT FLASH MIRROR

Combined with Crizal Sun UV as standard and available in a wide range of designs, Silver Shadow CT lenses are easier to clean and offer improved UV protection. For high performance and an elegant or sporty look, choose Silver Shadow CT.



For the ultimate combination
couple Silver Shadow CT with Xperio

Xperio
polarised sun lenses

Recommendation for glazing

Cleaning before blocking should not be done because it can take off the protective over layer. The lens must be wiped after mounting.

Please refer to glazing recommendations in the Product Information (P9-10).

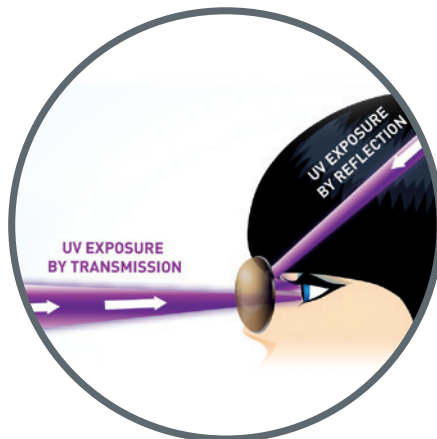


Not suitable for
night driving

INTRODUCING E-SPF*

EYE-SUN PROTECTION FACTOR

E-SPF is an international index developed by Essilor and endorsed by third party experts. It certifies the overall UV protection provided by a lens – integrating UV protection from UV light coming from both surfaces of the lens.



*E-SPF® is an index rating the overall UV protection of a lens. E-SPF® was developed by Essilor International and endorsed by 3rd party experts. Lens performance only. The E-SPF® index excludes direct eye exposure that depends on external factors (wearer's morphology, frame shape, position of wear).

SPECIFIC SUN TREATMENTS

TAKING PROTECTION TO THE HIGHEST LEVEL

Essilor has developed Crizal Sun UV specifically designed for sun lenses.



Crizal Sun UV

The complete UV protection for safer outdoors and comfortable vision with protection against UV rays.

- Crizal Sun UV anti-reflective lenses provide clearer vision by eliminating 99% of visible glare and reflections on the back surface of the lens, which can cause eyestrain.
- Complete protection for the lens against the enemies of clear vision.



Crizal® Sun uv



All Essilor lenses with Crizal Sun UV come with E-SPF 50+

TINTS AND CE STANDARDS

PROTECTION AND USAGE

CE Regulations - What does this mean for you?

Opticians are required to give patients information and advice on the correct use, care and limitations of their lenses. The information required is very specific and makes definite demands of opticians, particularly in terms of the restrictions on use of lenses. Much of it is information that any optician would give patients as a matter of course, but under the Directive, opticians are encouraged to do so systematically.



Usage restrictions

Sun protection

The Directive defines five classes of sun protection, each with indications for appropriate use.

Driving

Lenses are deemed unsuitable for driving if light transmission is less than 8% LTF, or if the tint affects the perception and recognition of traffic lights. For night driving, transmission should not be less than 75% LTF.

Lenses that leave distance vision uncorrected

These are not suitable for activities that require distance vision and are not recommended for driving. This applies principally to lenses designed for computer use etc, which only offer mid and/or near vision correction.

Lens care

Opticians must explain that lenses need regular cleaning by washing with soap and water or a suitable lens cleaning solution and drying with a soft clean cloth, and should advise when solvents and detergents should not be used.

Glazing

Frames should carry the CE logo. If they were purchased before June 1998, as in the case of reglazes, a disclaimer form must be sent with the frames to be glazed, a copy of which is obtainable from Essilor.

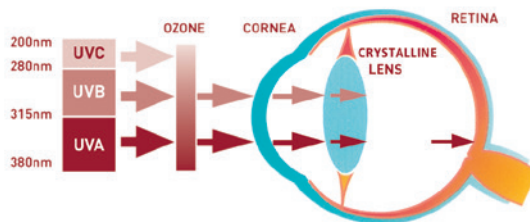
TINTS AND CE STANDARDS

PROTECTION AND USAGE

| Tint density | | | | |
|--------------|------------------------------|-------------------------------|----------------------|--------------------------------|
| Class | Category | Usage | Essilor Standard LTF | Driving Restrictions |
| 0 | Clear or very lightly tinted | Indoors or overcast | 82% | No restriction for driving |
| 1 | Light tint | Low sunlight | 65% | Not suitable for night driving |
| 2 | Medium tint | Medium sunlight | 38% / 25% | Not suitable for night driving |
| 3 | Dark tint | Bright sunlight | 15% | Not suitable for night driving |
| 4 | Very dark tint | Exceptionally bright sunlight | 5% | Not suitable for driving |

UV protection

To the eye, ultra-violet (UV) radiation is a dangerous component inflicting cumulative damage. UV radiation can be divided into three categories, each having different effects upon the eye: UVC, UVB & UVA.



Orma UVX

Orma UVX offers total front surface protection against UV radiation, thereby reducing the cumulative damage caused to the ocular media.

Those who would benefit from Orma UVX include:

- Children who are very sensitive to UV light
- Aphakics, who risk retinal damage without protection
- People subjected to intense bright light

- People on certain medications who have an increased sensitivity to UV radiation (e.g. tranquilisers, antibiotics, oral contraceptives and anti-histamines)

- People exposed to sunlight - at high altitude

NB: UVX is only available on Orma 1.5 and can be combined with Crizal Prevencia, Crizal Sapphire UV, Crizal Easy UV and the Supra hard coating.

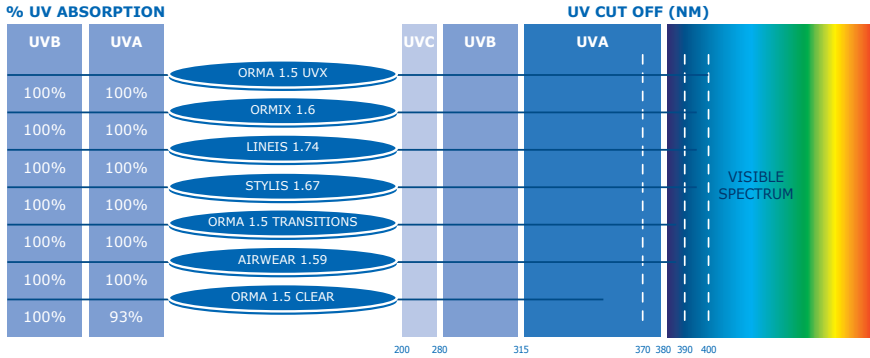
For class 3 and 4 tinted Orma 1.5 products, UVX will be automatically added and a charge will be made.

TINTS AND CE STANDARDS

PROTECTION AND USAGE

Protection against ultra-violet radiation

A comparison of different UV absorbent materials



Glazing

Important information

All frames sent in are checked by our Contract Review team. Whilst we endeavour to give you the best possible glazing service, there may be instances based on the PDs and prescription combination that we may not be able to glaze the lenses ordered into the frame you sent us. If this happens, a member of the Glazing team will contact you to find an alternative solution.

What colour are you?

Colours

- Brown & Grey
- Grey/green
- Xperio colours
- Category A (Grey, Brown, Grey/Green)
- Graduated
- Crizal Sun UV
- Silver Shadow

Varilux X series 1.6 1.59 1.5

Varilux Physio 2.0 1.67 1.6 1.59 1.5

Varilux E series 1.6 1.59 1.5

Varilux Comfort NE 1.67 1.6 1.59 1.5

Varilux Liberty NE 1.6 1.59 1.5

Single Vision 1.67 1.6 1.59 1.5

Classic colours

Xperio colours

Blue ink

Coatings

- Crizal Sun UV
- Silver Shadow

Varilux X series 1.6 1.59 1.5

Varilux Liberty NE 1.6 1.59 1.5

Single Vision 1.67 1.6 1.59 1.5

Classic colours

Forest Green

Ocean Blue

Violet

Coatings

- Crizal Sun UV
- Silver Shadow

Varilux X series 1.6 1.59 1.5

Varilux E series 1.6 1.59 1.5

Varilux Liberty NE 1.6 1.59 1.5

Single Vision 1.67 1.6 1.59 1.5

Bronze

Orange

Candy

Silver

Applied to a brown Xperio tint

Applied to a grey Xperio tint

Essicour tint

- Full
- Graduated
- React tint (Grey, Brown, Grey/Green)
- Non standard tint
- Customer sample match
- Crizal Sun UV

Varilux X series 1.74 1.67 1.6 1.59 1.5

Varilux Physio 2.0 1.74 1.67 1.6 1.59 1.5

Varilux E series 1.74 1.67 1.6 1.59 1.5

Varilux Comfort NE 1.67 1.6 1.59 1.5

Varilux Liberty NE 1.67 1.6 1.59 1.5

Single Vision 1.74 1.67 1.6 1.59 1.5

Classic colours

Forest Green

Ocean Blue

Violet

Blue ink

Coatings

- Crizal Sun UV
- Silver Shadow

Varilux X series 1.6 1.59 1.5

Varilux E series 1.6 1.59 1.5

Varilux Liberty NE 1.6 1.59 1.5

Single Vision 1.67 1.6 1.59 1.5

Brown & Grey

Black

Brown

Grey

Blue ink

Available in full tints (Class 0-4)
Graduated tints (Class 1 and 3)
React tints (Class 1 and 3)
React tints (Class 1 and 3)
Class 1 up to Class 3

Lens ordering

Telephone: 01454 281 281

Fax: 01454 281 282

Email: orders@essilor.co.uk

Essilorder: ecp.essilor.co.uk

Lens support

Essilorder: 01454 423 491

Essilor Bristol glazing: 01454 423 254

Essilor London glazing: 0207 421 6161

Essilor Manchester glazing: 0161 866 8011

Instruments: 01454 423 457

Lens technical assistance: 01454 423 253

Marketing: 01454 423 450

Returns / quality: 01454 281 281

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