



World Market Leader In Polarized Lenses

Not all polarized lenses are equal in quality and performance. It has taken NuPolar technology decades in design and development work to become the true and accepted global standard for polarized lenses.

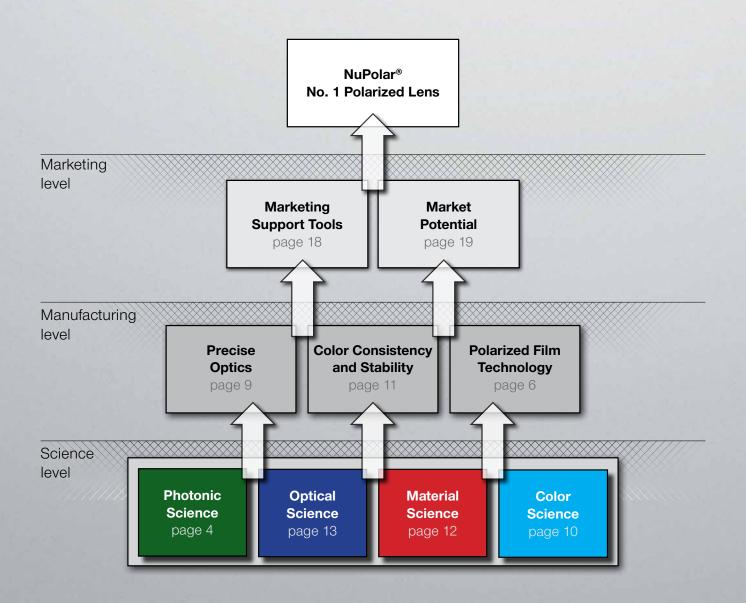
NuPolar lenses, as the market leader, set the benchmark for stringent performance characteristics of optics, polarized film technology, color consistency, material sciences and more.

NuPolar lenses help you grow your business and realize the untapped potential of polarized lenses.

For the last 20 years, NuPolar lenses have been and continue to be the global standard from which all other polarized lenses are measured.

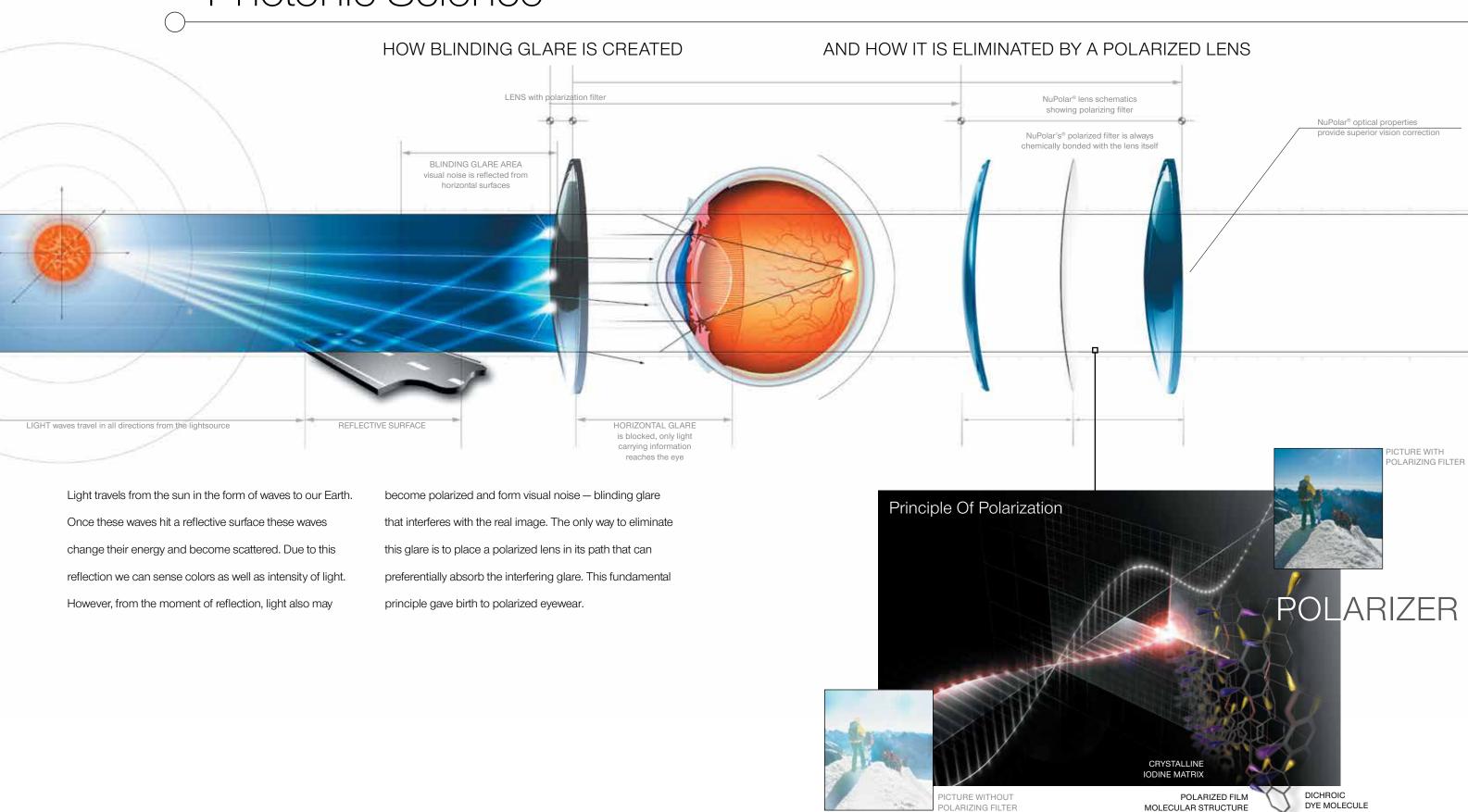
Here is why...

NuPolar® technology is founded and based on Science; putting it all together properly is NuPolar's Art.



page 2 page 3

Photonic Science



page 4

Advanced Polarizing Film Technology Helps Make NuPolar® The World Market Leader

The most important element of any polarized lens is the polarizer – a unique thin film incorporated into the lens structure. NuPolar film is unique and its performance is unrivaled in the industry.

HIGH POLARIZATION EFFICIENCY

NuPolar never compromises on high polarization efficiency. Some polarized films have such low efficiency that they don't even work with a glare demonstrator.

PROPRIETARY FILM TECHNOLOGY

Younger is one of the few lens manufacturers that has film manufacturing capabilities. This has allowed us to achieve unrivaled excellence in the areas of film placement, color stability, heat stability, and advanced film adhesion. Creating a great polarized lens starts with great polarizing film technology, and here NuPolar is unrivaled.

EXCELLENT COLOR UNIFORMITY

Younger colors are always "true colors". The human eye is a superb "color matching instrument" and NuPolar lenses are the best product on the market to satisfy these demanding requirements.



EXCELLENT HEAT STABILITY

NuPolar's colors remain stable in the elevated temperatures often required for hard coating and AR processing.

Other lenses often fade or change their colors completely when subjected to the temperatures required during these processing steps.

Chemical bond

The unique chemical composition of the polarizing film facilitates a chemical reaction between the lens material and polarizing film material. As a result, the polarizing film and the lens are linked by a stable chemical bond. This eliminates any chance of film separation.

SUPERB ADHESION

Before NuPolar, delaminations were an everyday occurrence with polarized lenses.

With NuPolar technology, the film and lens form an integral chemical bond which eliminates the possibility for lens/film delaminations.

page 6 page

How To Achieve

A Thin And Optically Stable Lens

NuPolar® products are always designed to be as thin as possible. This is done by proprietary positioning of the film and by offering the widest possible variety of materials.

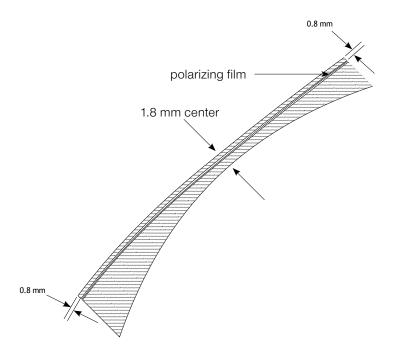
Whatever material is selected, you can be sure that the material and the film have been properly matched to ensure both a thin and an optically correct lens.

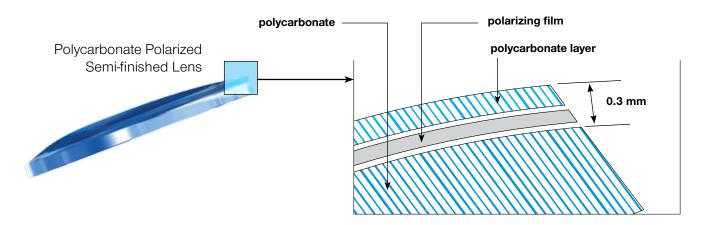
So many factors go into making a high quality NuPolar lens.

Throughout the manufacturing cycle, from beginning to end, every step must be watched and carefully supervised to ensure that every lens meets the NuPolar standards, regardless of material.

It is very easy to make a mediocre quality polarized lens, yet exceedingly difficult to make a high-quality polarized lens like NuPolar.

HARD RESIN NUPOLAR CONSTRUCTION APPROACH (CROSS-SECTION)

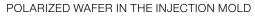


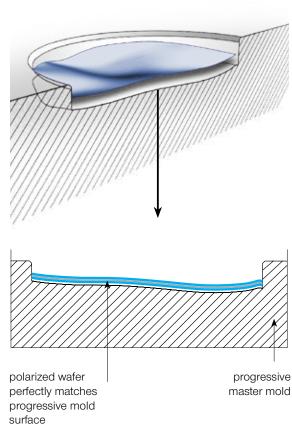


Precise Replication of

Progressive Design

Optical designers go to a lot of trouble to try and come up with the best design possible for each patient. However, many polarized lenses do not properly replicate the intended design.





NuPolar progressive designs use patented technology which ensures that the replicated design on the finished lens matches that which the optical designers intended.

Younger's unique film matching technology actually forms the film into nonspherical shapes and often replicates the curvatures of the progressive itself. This allows for the best possible replication of the optical design and insures that the finished lens will have the capability to be processed as thin as possible given the progressive design.

No other polarized lens product takes the care and pride in its film technology as NuPolar does.

NuPolar® Is Perfect for Digital Surfacing

Excellent digital surfacing results start with having precise curve control and optics on the front surface of the lens.

This curve control can only be achieved through rigorous adherence to manufacturing standards throughout the manufacturing process. The precision of the front curve of

a lens is a result of the care given to it by the manufacturer.

NuPolar products are designed to be freeform friendly. The

number of base curves in one-diopter steps is maximized to

give as thin and flat a finished lens as possible.

page 8 page 9

The Science of Colors

While many lesser polarized lenses take the approach to have as many colors as possible, we disagree with this philosophy. It is better to have excellent "true and deeply rich" colors, which remain that way, and that are also highly polarizing.

Many other colors on the marketplace are so light and washed out they cannot even be considered polarizers. Making matters even worse, most of these lenses are not even heat stable, and change their color even more during post-processing.

With NuPolar® lenses, feel confident your grays will be deep and satisfying grays, as will your browns, and any other NuPolar color. And they will stay that way!



GRAY-3

Excellent for bright sun conditions while color integrity is maintained. Colors become richer and deeper and maximum blinding glare protection is provided.



Copper is considered by many an excellent high contrast lens which highlights greens and reds. It is particularly effective in cutting through blue haze.



GRAY-1

Great for less bright conditions where color integrity should be maintained. Can be over-tinted to a variety of fashion colors without affecting polarization efficiency.



Perfect for those who enjoy a traditional green color. It is preferred for the enhancement of colors.



Consistency & Stability

When a lens is subjected to heat, it may change color due to thermal degradation. Measuring the color of the lens before and after a key test tells us how much the color has shifted. Polarized lenses are often subjected to high levels of heat (120 - 140°C) in laboratory processing, particularly during hard coating and AR coating. Using NuPolar's proprietary "HT Film Technology" NuPolar products are the most color stable polarized lenses available.

GRADIENT GRAY & BROWN

Style-conscious wearers can get the gradient they want with the polarization they need. With NuPolar's new encapsulated technology the lenses won't fade or discolor, and there is no tinting necessary.



BROWN

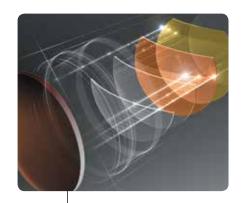
A true, deep, rich brown that provides for a wearing experience in which the lens enhances colors and especially highlights greens.



TRANSITIONS® DRIVEWEAR®

The most advanced polarized eyewear on the market. Transitions Drivewear sun lenses can sense and react to varying light conditions both outside and behind windshield of the car.

Advanced Transitions® Drivewear® Colors





By combining the best properties from two of the most advanced technologies, NuPolar® polarization and Transitions photochromics, we created Transitions Drivewear sun lenses, the ultimate NuPolar product for driving. The lens is designed for comfort and safe driving as well as for overcast and bright light outdoors. Transitions Drivewear sun lenses are capable of sensing and reacting to

varying light conditions both outside and behind the windshield of a car. They provide glare protection through polarization, and enhance and protect vision through photochromics which are stimulated by both visible and UV light. For more information about Transitions Drivewear sun lenses, order the publication entitled Art & Science of Transitions Drivewear or visit www.DrivewearLens.com.

OVERCAST LOW LIGHT CONDITIONS HIGH CONTRAST OLIVE GREEN COLOR



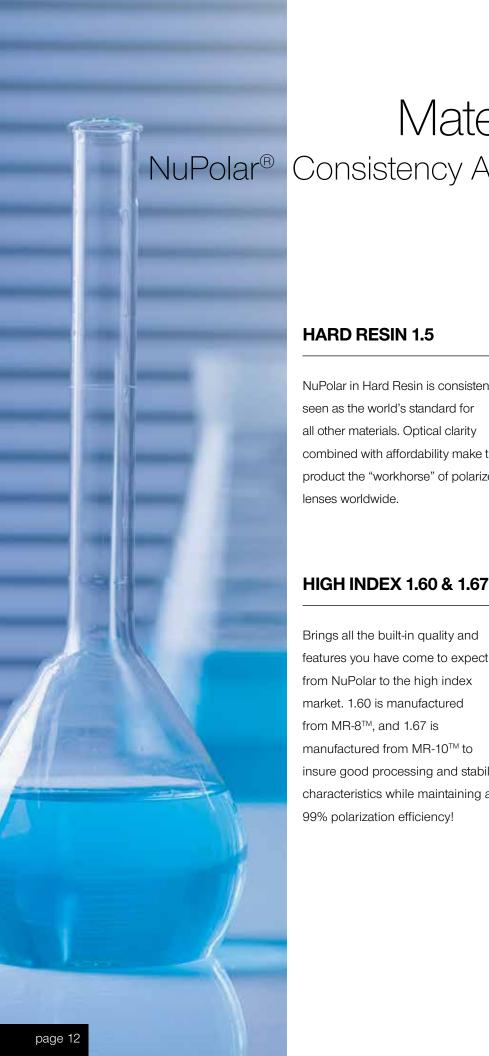
DAYLIGHT DRIVING CONDITIONS COPPER COLOR



BRIGHT LIGHT OUTSIDE CONDITIONS BROWN COLOR



page 11 page 10



Material Science NuPolar® Consistency Across All Materials

HARD RESIN 1.5

NuPolar in Hard Resin is consistently seen as the world's standard for all other materials. Optical clarity combined with affordability make this product the "workhorse" of polarized lenses worldwide.

Brings all the built-in quality and features you have come to expect from NuPolar to the high index market. 1.60 is manufactured from MR-8™, and 1.67 is manufactured from MR-10™ to insure good processing and stability characteristics while maintaining a 99% polarization efficiency!

POLYCARBONATE

NuPolar polycarbonate provides the impact resistance and protection desired for every activity under the sun. NuPolar polycarbonate is also perfect for children.

TRILOGY® (TRIVEX®)

Combining the best in optics, strength, thinness and lightweight, NuPolar Trilogy lenses have it all Over five years in development, this patented product provides the ultimate balance of features to the wearer.

Optical Science Optical Quality Designed And

Built Into Every Lens

CYLINDER AND CURVE CONTROL

Because polarized lenses have the additional manufacturing challenge of working around a polarized film, it is difficult to maintain low cylinder and precise curve control. This is one of the areas where NuPolar® really excels. Being the market leader really allows us to maximize our manufacturing processes.

QUALITY TESTING & COMPARISON

NuPolar lenses are constantly subjected to proprietary and unique testing to ensure that they are the best in the industry. Lenses are subjected to no less than a dozen quality tests throughout the manufacturing process.

In addition, NuPolar lenses are constantly compared and evaluated with the leading lenses in the marketplace. Over and over again, we find NuPolar is simply superior to any other polarized lens in the marketplace.

STYLES AND AVAILABILITY

Whether it be materials, colors, or styles, NuPolar lenses consistently have the availability YOU NEED. NuPolar is made in more progressive styles than any other product. Feel confident that if you need a product with polarized lenses, it's probably available in NuPolar.

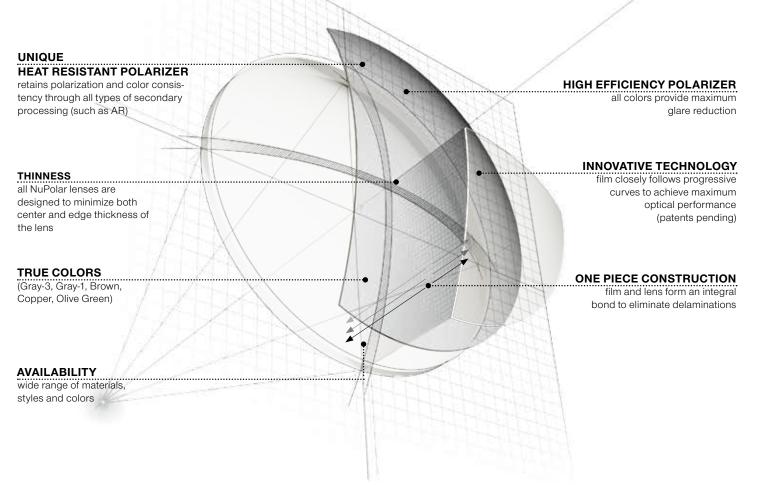
Younger Optics has won 24 OLA Awards of Excellence Including the first one ever awarded.

NuPolar has won more OLA Awards of Excellence than any other polarized lens.



NuPolar® Polarized Lens Summary





As polarized lenses gain in popularity and are being offered by an increasing number of lens manufacturers, it is easy to begin to think that all of these lenses are manufactured the same, and are of equal quality and similar performance. This is certainly not true.

NuPolar is the world's leading brand of polarized Rx lenses. When performance factors such as optics, polarizing efficiency, color consistency, heat stability and many other factors are taken into consideration, NuPolar quality is

unequaled. We worry about the small details of our lenses so that you don't have to. With NuPolar lenses you can always be sure of receiving the most advanced and intelligently designed lens available.

				NuPola	ar® Versus Othe	er Leading Brar	nds			
Polarized Product		Optics	Transmission	Color Uniformity	Polarization	Heat Stability Color	Heat Stability Polarization	Film Adhesion	Film Placement At Center	Film Placement Across Lens
Brand A	UC	3	5	3	5	3	4	2	3	4
Brand B	HC	5	5	3	3	3	4	1	3	4
Dranu D	UC	5	5	4	3	3	4	1	3	4
Brand C	HC	5	5	4	5	1	5	4	5	3
Brand D	UC	3	5	4	5	3	4	4	2	4
Brand	HC	3	5	4	5	1	5	3	3	2
X-1 *	UC	4	5	4	5	1	5	3	4	3
X-2 *	HC	5	5	4	5	1	4	3	3	3
X-3 *	HC	5	5	2	5	1	4	4	4	3
NuPolar®	HC	5	5	4	5	5	4	4	5	5
Brand X distril	butes ι	under 3 produc	et names	5 Exceller	nt 4	Very Good	3 Satisfacto	ory 2 F	Poor 1	unacceptable

Leading Polarized Brand Comparisons**

While most brands do some things well, every brand except for NuPolar fails to meet acceptable standards in some important product area.

Brand A

This product fails in the area of film adhesion. This can lead to delaminations both during processing and while in use by the patient.

Brand B

Also fails with film adhesion. Only mediocre in the areas of heat stability, polarization and film placement.

Brand C

Unacceptable color stability when subjected to higher temperatures, particularly during hard / AR Coating. Don't be surprised if no two lenses look the same color.

Brand D

Poor film placement at center, mediocre optics and heat stability.

Brand X1, X2, and X3

This leading manufacturer's product falls way short of acceptability in the area of color heat stability. All show poor to mediocre film placement, only moderate adhesion, and one product brand shows poor color uniformity. Also, you may not be sure what product you are going to get, since it appears product is interchanged between three brand names.

NuPolar®

NuPolar has the highest ranking in every category. Especially in the areas where other products fall short, NuPolar consistently excels.

Why Ever Settle for Less Than NuPolar?

No other brand of polarized lenses puts it all together like NuPolar. This isn't an accident; it is the end result of years of experience manufacturing and developing NuPolar. It's the world's leading brand, and it is clear why so many people within the optical industry choose it every day.

Remember, not all polarized lenses are the same. Always remember to specify Nupolar when ordering polarized lenses!

page 14 page 15

 $^{^{\}star\,\star}\text{Test}$ results based on analysis of hard resin products.

Glare Is Everywhere; Reduce It By Wearing NuPolar® Lenses

NuPolar acts like a "visual filter" for your eyes making every situation where the sun is present look clearer and richer by blocking blinding glare. Camera enthusiasts have known for years that a polarized filter makes their pictures look better... why not give the same benefits to your eyes through NuPolar lenses?

Notice how NuPolar makes the sky bluer and the greens greener in pictures **①**, **②**, and **⑦**.

Look how the rainbow behind Stirling Bridge in Scotland "comes alive" in picture $oldsymbol{0}$.

NuPolar can make driving safer by blocking out blinding and harmful glare, as in pictures **2** and **3**.

Whether in the forest **3**, on a mountain-top **5**, in a grassy field **7**, or just enjoying a coffee in an outdoor café **5**, NuPolar makes the experience richer and more deeply satisfying.



















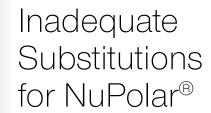




THERE IS NO SUBSTITUTION FOR POLARIZED LENSES.

ONLY POLARIZED LENSES CAN REMOVE BLINDING GLARE.

AND NUPOLAR® DOES IT BEST.



PHOTOCHROMIC LENSES

Variable tint lenses only reduce light transmittance. They do not block blinding glare.

ANTI-REFLECTION COATING

AR coating is a great feature for ophthalmic lenses, removing annoying reflections and ghost images.

AR coatings will actually increase light transmittance and reduce the reflections from the back surface of polarized sunwear. However, blinding glare will not be effectively removed by



AR coatings alone.

TINTED LENSES

only reduce light

transmittance and do not block blinding glare.



CLIP-ONS

increase the weight of eyewear and may cause

scratches on the lens surface. They also decrease optical quality and create additional surface reflections.





that fit over existing sunwear can be

extremely heavy and uncomfortable.

They limit peripheral vision, may distort optics and their users look unstylish.





page 16 page 17



Like all value-added features,
polarized lenses require a bit of
consumer education. Younger Optics is committed to
providing the eye-care professional with a wide range of
marketing materials that make this task simple. The most
effective of these is the NuPolar Glare Demonstrator. It makes
evident the benefits of polarized lenses by allowing customers

the opportunity to "see for themselves" the positive effects of glare reduction.

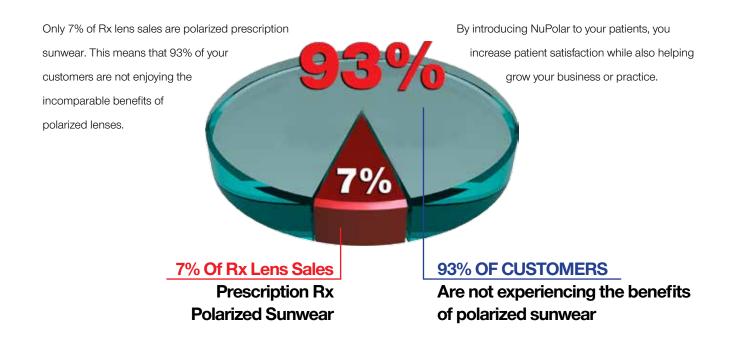
This demonstrator, as well as many other marketing resources designed to make selling second pairs easier, is available to retailers and labs that sell NuPolar lenses. For a complete list of available resources, please visit the Marketing section at www.NuPolar.com.

What NuPolar® means

TO PATIENTS TO OPTICIANS NuPolar eyewear means Offering NuPolar eyewear means improved visual acuity premium product that is easy to demonstrate best eyewear for driving satisfied customers better visibility and safety, less eye fatigue increased sales protection from sun and UVA and UVB enhanced practice profitability true colors and improved contrast patient loyalty resulting in referrals and recalls stylish look great sense of personal accomplishment



Untapped Market Potential



page 18

NUPOLAR® LENS AVAILABILITY HARD RESIN COLORS BASES ADD RANGE Single Vision 1, 2, 3, 4, 5, 6, 7, 8 Gray 3, Brown & Green Single Vision 2.4.6.8 Gray 1 IMAGE® Progressive 2, 4, 6, 8 Gray 3 & Brown 1.00 - 3.00FT 28 Bifocal 2, 4, 6, 8 Gray 3 & Brown 0.75 - 4.00 FT 35 Bifocal 0.75 - 4.00 2, 4, 6, 8 Gray 3 7 x 28 Trifocal 1.50 - 4.00 4, 6, 8 Gray 3 Plano 6 Gray 1, Gray 3, Brown & Green BASES **POLYCARBONATE COLORS ADD RANGE** Single Vision .50, 1, 2, 3, 4, 5, 6, 7, 8 Gray 3 & Brown Single Vision .50, 2, 4, 6, 8 Copper & Green Single Vision* Gradient Gray & Gradient Brown 4, 6, 8 2, 4, 6, 8 IMAGE® Progressive Gray 3 & Brown 1.00 - 3.00IMAGE Wrap® Progressive Gray 3 1.00 - 3.00 8 ADAGE® Progressive Gray 3 & Brown 1.00 - 3.00 2, 4, 6, 8 FT 28 Bifocal 2, 4, 6, 8 Gray 3 & Brown 1.00 - 3.00 1.60 HIGH INDEX MR-8™ BASES COLORS Single Vision Gray 3, Brown & Green 1, 2, 3, 4, 5, 6, 7, 8 1.67 HIGH INDEX MR-10™ **BASES COLORS** Single Vision 1, 2, 3, 4, 5, 6, 7, 8 Gray 3, Brown & Green BASES TRILOGY® TRIVEX® **COLORS** Single Vision 2, 4, 6, 8 Gray 3 & Brown Plano 6 Gray 3 & Brown

HARD RESIN	BASES	COLORS	ADD RANGE	
Single Vision	1, 2, 3, 4, 5, 6, 7, 8	Transitions Drivewear		
IMAGE® Progressive	2, 4, 6, 8	Transitions Drivewear	1.00 - 3.00	
FT 28 Bifocal	2, 4, 6, 8	Transitions Drivewear	1.00 - 3.00	
Plano	6	Transitions Drivewear		
POLYCARBONATE	BASES	COLORS	ADD RANGE	
Single Vision	2, 4, 6, 8	Transitions Drivewear		
IMAGE® Progressive	2, 4, 6, 8	Transitions Drivewear	1.00 - 3.00	
TRILOGY® TRIVEX®*	BASES	COLORS	ADD RANGE	
	2, 4, 6, 8	Transitions Drivewear		
Single Vision		Transitions Drivewear		

NuPolar lenses block 100% UVB and 99%-100% UVA. Transitions Drivewear lenses block 100% UVA and UVB. All NuPolar and Transitions Drivewear lenses pass the ANSI Z80.3 and ISO 8980-3 standards for Traffic Signal recognition. NuPolar and Transitions Drivewear lenses are not intended for night driving.



UNITED STATES

2925 California Street
Torrance, CA 90503-3914 USA
Phone: (310) 381-1362 or (800) 366-5367
Fax: (800) 828-8771
Orders: CustomerService@YoungerOptics.com

EUROPE BRAZIL AUSTRALIA

Comercni Zona Pruhonice
Obchodni 110, Čestlice 25170, Czech Republic
Phone: +420-234-097-222
Fax: +420-234-097-200
Orders: CustomerService@YoungerOptics.com

Rua Alfredo Achcar, 970, Prédio 10 Nova Vinhedo - Vinhedo/SP CNPJ: 15.069.973/0001-54 Phone/Fax: +55 19 3517-5700 Orders: Pedidos@YoungerOptics.com.br 6, 9-13 Ridley Street Hindmarsh, South Australia 5007 Phone: +61 88241-9800 Fax: +61 88241-7108 Orders: Admin@YoungerOptics.com.au