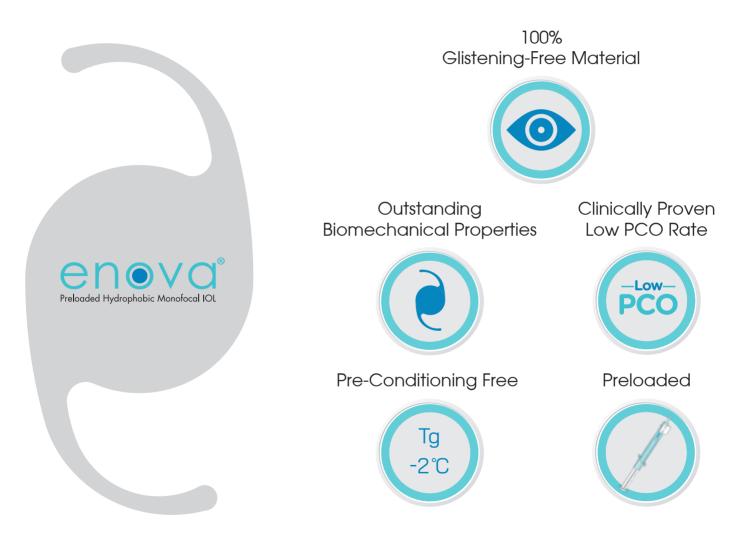
Enovation of Hydrophobic IOLs







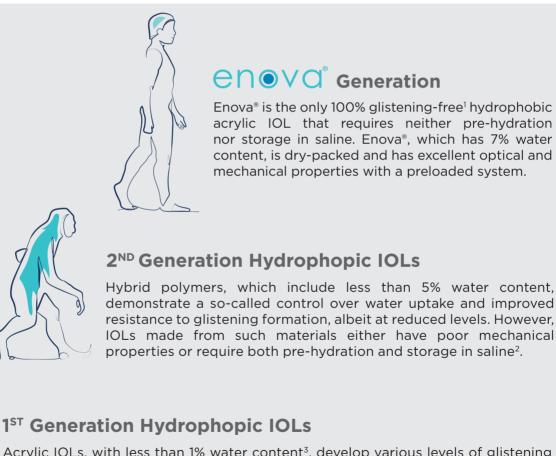
Enovation of Hydrophobic IOLs





Enovation of Hydrophobic IOLs

Hydrophobic IOLs have evolved significantly over time, and Enova® represents the pinnacle of this evolution. That's why we call it "Enovation".



Acrylic IOLs, with less than 1% water content³, develop various levels of glistening post-implantation due to uncontrolled water intake into the IOL polymers.

1- Glistening Analysis in Enova ® Hydrophobic Acrylic Intraocular Lenses / In-vitro Study Evaluating the Tendency of Different Intraocular Lenses to Form Intraoptical Glistenings by the University of Utah

- 2- Bausch & Lomb. enVista Directions for Use
- 3- Comparative analysis of in vitro accelerated glistening formation in foldable hydrophobic intraocular lenses. International Ophthalmology Tandogan, T., Auffarth, G. U., Choi, C. Y., Son, H.-S., & Khoramnia, R. (2021). -1-





The Enova® IOL Material is the first 100% Glistening-Free hydrophobic acrylic IOL that does not require pre-hydration and storage in saline solution!

The Enova® PGF3 IOL is dry-packed and boasts exceptional optical and mechanical properties.

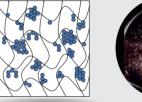
Glistening Formation in IOL

ENOVA® 100% Glistening-Free IOL

resistance to alistening formation.

Water molecules bind to certain chemical groups through weak hydrogen bonds. Over time, more water molecules diffuse into the polymer network and bind preferably to other water molecules, which forms clusters referred to as "glistening."

The unique composition of Enova[®] material allows the uniform hydration of specific sites, controlled water uptake, and











-2-





Enovation of 100% Glistening-Free IOL Material

Conclusion b	by the Univ	ersity of U	tah
		Andre glowings and	e dhinanaiy of Usak
Stels: In vitre stady or	disting the burdency.	of different intrascula	r lenem
	ta form introdedat	clinings.	
	STUDY REP	ORT	
1	ntermountain Ocalar I Joka A. Moran E University of	ve Center	
	Sentence VSV Bio	technology	
NI PILATY OF WIAH		In vitro glistenings s	tudy; University of Utah
Conclusions: Enova® 1 formation after hydrati exhibited trace glisteni glistening formation ir lenses showed no su commercially available lenses.	on and variation of t ng formation, and A n these in vitro test urface haze and g	he temperature. Tec crySof intraocular conditions. The net listenings when c	nic intraocular lenses lenses exhibited mild w Enova [®] intraocular ompared with other
Liliana Werner, MD, PhD		Bi	line Work
Nick Mamalis, MD		11	The (in
	stening formation w	vas observed in th	similar to those on Day 1 his study at week 1, it wa
glistenings: 10 to 20 m	d optic haze (giving ht microscopy) and hicrons.	d mild glistening fo	prmation. Diameter of the
 Tecnis IOLs: Moder rellowish/brownish di ormation, Diameter of 	iscoloration under	 light microscop 	central part of the optic by) and trace glistening
glistenings or microv	acuoles (MV) th	at were well foo	e lenses, the number o cused in the X200 ligh e results were converted to
	IOL	MV/mm² Week 1	
	Enova®	0	

Table 1 : Number of Microvacules Converted to MV/mm²

Tecnis

2.9



In vitro glistenings study; University of Utah

Conclusions: Enova[®] hydrophobic acrylic intraocular lenses exhibited no glistening formation after hydration and variation of the temperature. Tecnic intraocular lenses exhibited trace glistening formation, and AcrySof intraocular lenses exhibited mild glistening formation in these in vitro test conditions. The new Enova[®] intraocular lenses showed no surface haze and glistenings when compared with other commercially available hydrophobic acrylic IOLs as AcrySof and Tecnis intraocular lenses.

Liliana Werner, MD, PhD

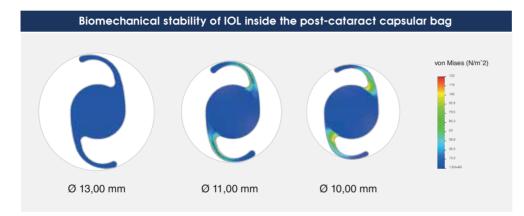
Nick Mamalis, MD



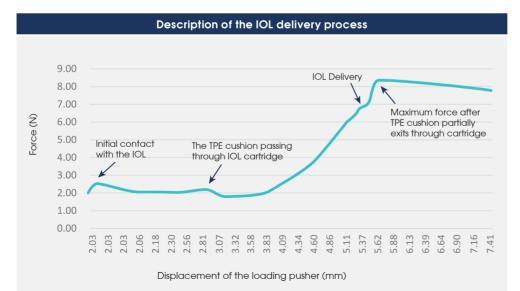


Outstanding Biomechanical Properties

Gentle and controlled unfolding process in the posterior chamber and no pre-warming or special pre-conditioning is required.



Introducing our groundbreaking IOL, delivering easy unfolding, special haptic design for great stability, and smooth injection capability.



Experience the convenience of controlled deployment for precise positioning and a seamless implantation process.

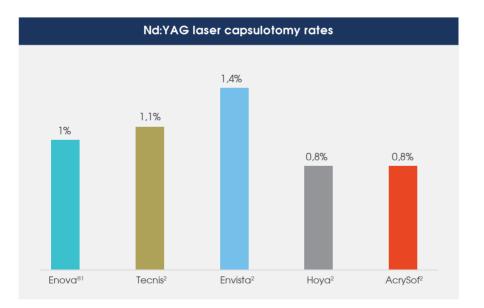




Clinically Proven Low PCO Rate

Posterior capsule opacification (PCO) after cataract surgery is impacted by the intraocular lens' (IOL) design and material. Enova®'s new 100% Glistening-Free material minimizes the risk of PCO and Nd: YAG procedures after implantation.

In the multicenter studies performed on Enova® IOLs, PCO was evaluated on 320 eyes. After 1 year, the post-operative results showed that only 5% of the total eyes and 1% of total implantations had PCO, necessitating Nd-YAG laser treatment.



1- VSY Biotechnology Data on File, 2023.

2- RCOphth National Ophthalmology Database Audit Feasibility Study of Post-cataract Posterior Capsule Opacification 2021





No Pre-Conditioning Required

A polymer's Glass Transition Temparature (Tg) is reached when the polymer changes from a rigid material to a soft material. Having a Tg of –2.0°C, all IOLs with the unique Enova® material undergo a gentle and controlled unfolding process below standard operating room temperatures.

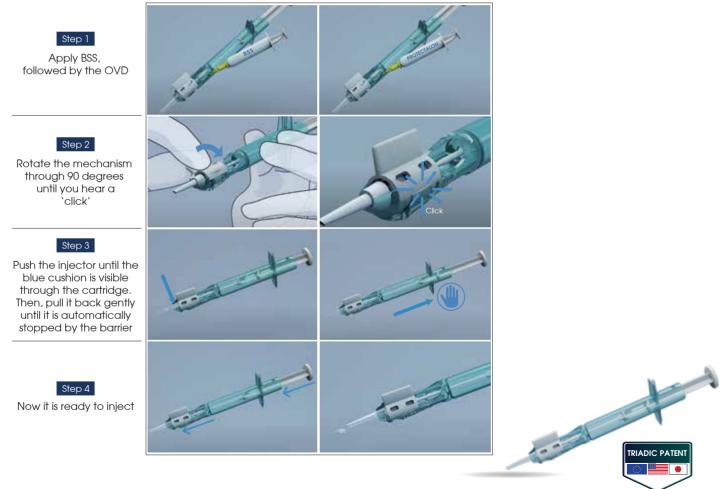
Thus, no warming or special pre-conditioning is required.

IOL	Tg (°C)	Glistening	Packaging State
enova	-2.0	No	Dry
AcrySof Vivity®	15	Yes	Dry
Tecnis®	14	Yes	Dry



Ready-to-Go Preloaded System

Due to its patented Rotaryjet technology, the Enova® Hydrophobic IOL with the Rotaryjet Preloaded IOL system provides a safe, efficient, and user-friendly delivery procedure. Its smart design allows for reliable surgery with smooth IOL implantation and reduced post-op risks.





Technical Features

Enova® PGF3					
Material	Single Piece, 100% Glistening-Free, Hydrophobic Acrylic, Dry-Packed				
Optic Design	Monofocal, Biconvex Aspheric				
Refractive Index	1.53 (546 nm)				
Glass Transition Temperature (Tg)	-2°C				
Water Content	7%				
Optic Diameter	6.00 mm				
Overall Diameter	13.00 mm				
Haptic Design	C-Loop				
Haptic Angle	0°				
Spherical Power Range	Preloaded	From +6.00 D to +30.00 D (0.50 D increments)			
	Standalone*	From 0.00 D to +32.00 D (0.50 D increments)			
Lens Color	Clear				
Photo Protection	UV Filtration				
Recommended Constants	Ac A constant: 118.0 SRK-II : 119.03 SRK-T: 118.7 Haigis a0, a1, a2: 1.11, 0.4, 0.1 HofferQ pACD: 5.33 Holladay sf:1.55 Barrett UniversallI LF:1.73				
Recommended Injector System	Rotaryjet Preloaded System Acrijetfly 2.2				

*Recommended injector system: Acrijetfly







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