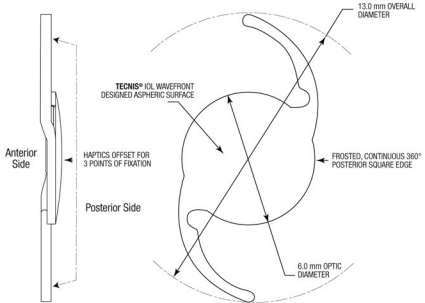




Model: ZCB00

TECNIS[®] 1-Piece Aspheric Hydrophobic Acrylic IOL



KEY MESSAGES

- **TECNIS[®] Technology**
 - Corrects spherical aberration to essentially zero for sharper vision, even in low-light conditions^{1,2}
 - Multiple studies confirm that peak performance occurs at age 19 when spherical aberration is zero^{3,4,5,6,7}
- **AMO[®] Hydrophobic Material**
 - Transmits healthy blue light for optimal scotopic vision and healthy circadian rhythms⁸
 - Lower chromatic aberration for sharper vision⁹
 - Not associated with glisterings or calcifications
- **Next Generation Design**
 - **Tri-fix** 3-point fixation for increased stability and refractive predictability
 - Uninterrupted **ProTec** 360° edge design to limit LEC migration¹⁰

Model: ZCB00

DESCRIPTION	
OPTIC CHARACTERISTICS	
Powers:	+5.0 D to +34.0 D in 0.5 dioptre increments
Shape:	Biconvex, anterior aspheric surface, square optic edge
Material:	UV-blocking hydrophobic acrylic
Refractive Index:	1.47
ULTRASOUND BIOMETRY*	
A-constant:	118.8
Theoretical AC Depth	5.4 mm
Surgeon Factor: ¹¹	1.68 mm
HAPTIC CHARACTERISTICS	
Style:	Modified C
Material:	UV-blocking hydrophobic acrylic
RECOMMENDED INSERTION INSTRUMENTS	
MODEL	
The DK7786 Implantation System	DK7786
One Series[®] Ultra Cartridge	1VIPR30
Emerald AR UNFOLDER[®] Handpiece	EMERALDAR
Emerald AR UNFOLDER[®] Cartridge	1CART30
* Value theoretically derived for a typical 20.0 D lens. AMO recommends that surgeons personalise their A-constant based on their surgical techniques and equipment, experience with the lens model, and postoperative results.	

References

1. TECNIS Foldable Posterior Chamber Intraocular Lens [package insert], Santa Ana, Calif, Abbott Medical Optics Inc
2. Terwee T, van der Mooren M, Piers P. Optical performance of TECNIS IOLs compared with IOLs that partly compensate for the mean SA of the human cornea. Presented at: Annual Meeting of the American Society of Cataract and Refractive Surgery; 2008 Apr 4-9; Chicago
3. Artal P, Alcón E, Villegas E. Spherical aberration in young subjects with high visual acuity. Paper 558. Presented at: 24th Congress of the ESCRS; 2006 Sep 9-13; London, England
4. Smith G, Cox MJ, Calver R, Garner LF. The spherical aberration of the crystalline lens of the human eye. *Vision Res*. 2001;41:235-243
5. Glasser A, Campbell MC. Presbyopia and the optical changes in the human crystalline lens with age. *Vision Res*. 1998;38:209-29
6. Guirao A, Gonzalez C, Redondo M, et al. Average optical performance of the human eye as a function of age in a normal population. *Invest Ophthalmol Vis Sci*. 1999;40(1):203-13
7. Wang L, Koch D. Ocular higher-order aberrations in individuals screened for refractive surgery. *J Cataract Refract Surg*. 2003;29(10):1896-1903
8. Mainster MA. Violet and blue-light blocking intraocular lenses: photoprotection versus photoreception. *Br J Ophthalmol*. 2006;90:704-792
9. Zhao H, Mainster MA. The effect of chromatic dispersion on pseudophakic optical performance. *Br J Ophthalmol*. 2007;91(9):1225-1229
10. Nixon DR. New technologies for premium outcomes: next generation phaco and TECNIS 1-piece IOL. Presented at 25th Congress of ESCRS; 2007 Sep 8-12; Stockholm, Sweden
11. Calculated based on Holladay I formula (Holladay JT, Prager TC, Chandler TY, Musgrove KH, Lewis JW, Ruiz RS. A three-part system for refining intraocular lens power calculations. *J Cataract Refract Surg*. 1988;14(1):17-24)