

**PRODUCT INFORMATION**

Alcon Laboratories, Inc.

ACRY *Sof* IQ<sup>®</sup>  
**TORIC**

ASTIGMATISM IOL

**STERILE UV and Blue Light Filtering Acrylic Foldable  
Toric Aspheric Optic Single-Piece Posterior Chamber Lenses**

ENGLISH PRODUCT INFORMATION .....2 - 23

**PRODUCT INFORMATION**  
Alcon Laboratories, Inc.

**ACRY Sof IQ**  
**TORIC**  
ARTIFICIAL EYE

**STERILE UV and Blue Light Filtering Acrylic Foldable Toric Aspheric Optic Single-Piece Posterior Chamber Lenses**

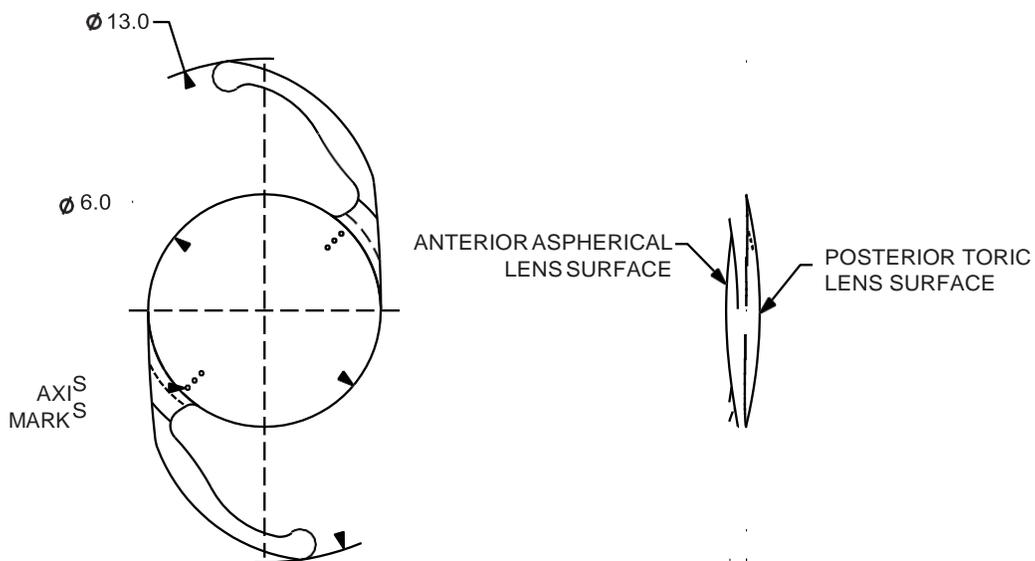
CAUTION: Federal (USA) law restricts this device to the sale by or on the order of a physician.

**DESCRIPTION**

The AcrySof®IQ Toric Posterior Chamber Intraocular Lens (IOL) is a UV-absorbing foldable intraocular lens (IOL). The single-piece design (see Figure 1 and Table 1) consists of a high refractive index material with proprietary blue light filtering chromophore which filters light in a manner that approximates the human crystalline lens in the 400-475 nm blue light wavelength range (Boettner and Wolter, 1962). In addition to standard UV-light filtering, the blue-light filtering chromophore reduces transmittance of blue light wavelengths by 67% at 400nm and 22% at 475nm (see Figure 2 and Table 2). The biconvex toric aspheric optic consists of a high refractive index soft acrylic material capable of being folded prior to insertion, allowing placement through an incision smaller than the optic diameter of the lens. After surgical insertion into the eye, the lens gently unfolds to restore the optical performance. The supporting haptics provide for proper positioning and fixation of the IOL optic within the eye. The anterior surface of the AcrySof® IQ Toric IOL Model SN6ATT is designed with negative spherical aberration identical to the aspheric AcrySof® IQ IOL Model SN60WF to compensate for the positive spherical aberration of the cornea.\* The image quality (i.e. Modulation Transfer Function) of the AcrySof® IQ Toric IOL is illustrated in Figures 3 & 4.

**Figure 1**

**Physical Characteristics of AcrySof® IQ Toric IOLs (All dimensions in millimeters)**

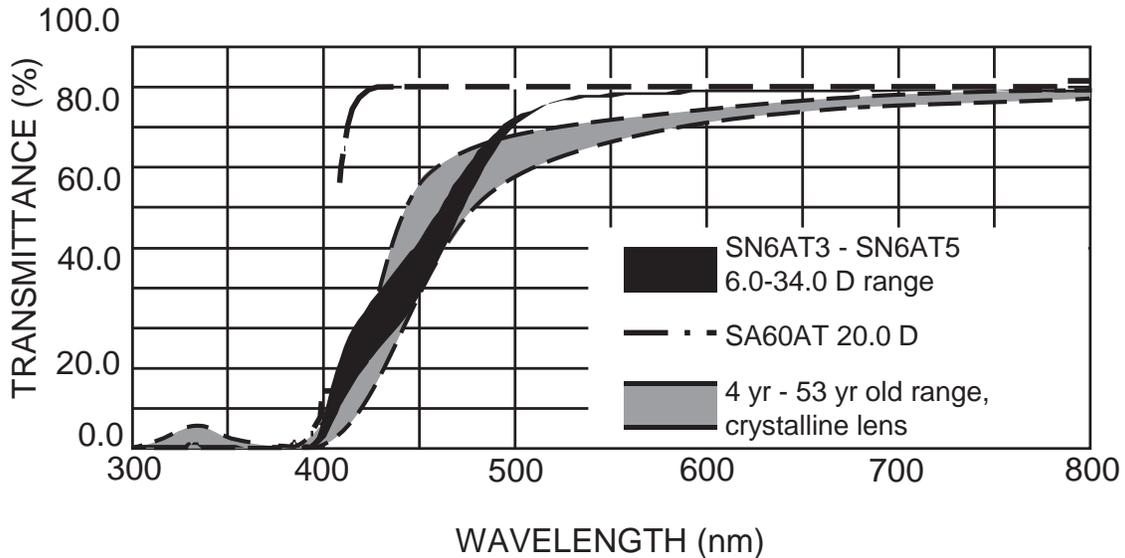


\* The effects of this aspheric design feature have been clinically assessed on AcrySof® IQ IOL Model SN60WF.

**Table 1**  
**Physical Characteristics of AcrySof® IQ Toric IOLs**

Characteristics	Model		
	SN6AT3	SN6AT4	SN6AT5
	Collectively referred to as Model SN6ATT		
Optic Type	Biconvex Toric Aspheric Optic		
Optic / Haptic Material	Ultraviolet and blue light filtering Acrylate/Methacrylate Copolymer UV cutoff at 10% T: 402 nm*		
IOL Powers (spherical equivalent diopters)	For available power range see Alcon Product Guide		
IOL Cylinder Power (diopters)	1.50 diopter	2.25 diopter	3.00 diopter
Index Of Refraction	1.55		
Haptic Configuration	STABLEFORCE®		
Optic Diameter (mm)	6.0		
Overall Length (mm)	13.0		
Haptic Angle	0°		

**Figure 2**  
**Spectral Transmittance Curves**  
**(Percentage of Ultraviolet Transmittance)**



**NOTE:**

- Human lens data from Boettner and Wolter (1962).

**Table 2**  
**Average % Transmittance Comparison**

Model (Diopter)	400 nm	425 nm	450 nm	475 nm
SA60AT (20.0 D)	21	86	88	88
SN6ATT (21.0 D)	7	33	48	69
Transmittance Difference (SA60AT – SN6ATT)	14	53	40	19
Transmittance Reduction with SN6ATT (% of SA60AT )	67	62	45	22