

40-500-044-010



PRODUCT INFORMATION

Alcon Laboratories, Inc.



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Alcon[®]
a Novartis company



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

Model Characteristics Chart

Model	Optic Type	Optic Diameter (mm) \varnothing_B	Overall Length (mm) \varnothing_T	Haptic Angle
SN60WF	Anterior Asymmetric Biconvex	6.0	13.0	0°

DESCRIPTION

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The AcrySof® IQ UV and blue light filtering acrylic foldable single-piece posterior chamber intraocular lens (IOL) is an optical implant for the replacement of the human crystalline lens in the visual correction of aphakia in adult patients following cataract surgery. The AcrySof® IQ lens with Alcon's proprietary blue light filtering chromophore filters light in a manner that approximates the human crystalline lens in the 400 – 475nm blue light wavelength range (Boettner and Wolter 1962). In addition to standard UV-light filtering, the AcrySof® IQ lens reduces transmittance of blue light wavelengths from 62% at 400nm to 23% at 475nm (see Table 1). The lens consists of a high refractive index soft acrylic material capable of being folded prior to insertion. The lens gently unfolds to a full-size lens body following implantation. The lens has a biconvex optic with supporting haptics. The posterior aspheric surface of the AcrySof® IQ Model SN60WF IOL is designed with negative spherical aberration to compensate for the positive spherical aberration of an average cornea. The image quality of the Model SN60WF IOL (i.e., modulation transfer function) is illustrated in Figure 3. The physical properties of the lens are:

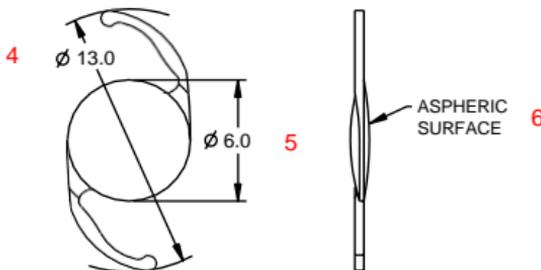
OPTICS

Dimensions: See Figure 1
 Material: 1 Ultraviolet and blue light filtering Acrylate/Methacrylate Copolymer
 2 UV cutoff at 10% T: See Figure 2
 Index of Refraction: 1.55 9
 Configuration: Anterior Asymmetric Biconvex
 Power: +6.0 through +30.0 diopter 8

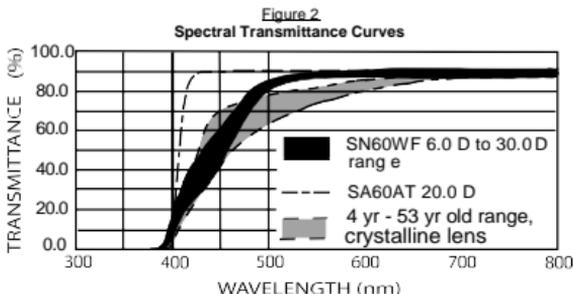
HAPTICS

Dimensions: See Figure 1
 Configuration: 11 STABLEFORCE® Modified-LHaptics
 Material: See Optic Material

Figure 1
PHYSICAL CHARACTERISTICS
All dimensions in millimeters



SN60WF



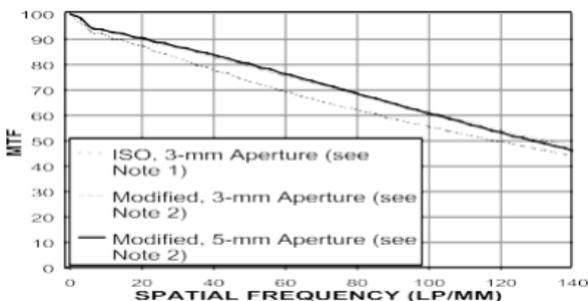
NOTES:

- The cutoff wavelength and the spectral transmittance curves presented here represent the range of transmittance values of IOLs made from acrylate/methacrylate copolymer with bonded UV-absorber and Alcon's proprietary blue light filtering chromophore.
- Measurements were by direct transmittance using a 6mm aperture and a disc of thickness equivalent to the optic center.
- Human lens data is from Boettner and Wolter (1962).

Table 1
Transmittance Comparison for 20.0 D IOLs, %

Model	400nm	425nm	450nm	475nm
SA60AT	21	86	88	88
SN60WF	8	34	49	68
Transmittance Difference (SA60AT – SN60WF)	13	52	39	20
Transmittance Reduction with SN60WF (% of SA60AT)	62	60	44	23

Figure 3
Modulation Transfer Function of Model SN60WF (20.0 D)



NOTES:

1. The image quality of the Model SN60WF was characterized by measuring modulation transfer function (MTF) in a model eye described in ISO 11979-2. The ISO 11979-2 requires MTF measurements using only a 3-mm aperture. MTF is a measure of the overall optical quality of an IOL's design.
2. In addition, the image quality of the Model SN60WF was characterized by measuring MTF in a model eye that utilized a simulated cornea exhibiting typical adult human spherical aberration. Using the modified model eye, MTF measurements were made using both 3 and 5-mm apertures.

13 HOW SUPPLIED

These posterior chamber intraocular lenses are supplied dry, in a package terminally sterilized with ethylene oxide, and must be opened only under aseptic conditions (see DIRECTIONS FOR USE).