

**IMPORTANT: Please read carefully and keep this information for future use.**

**This fitting guide is intended for the eyecare practitioner, but should be made available to the patient upon request. The eyecare practitioner should provide the patient with the wearer's guide that pertains to the patients prescribed lens.**

**TORIC VISION Soft (hydrophilic) Contact Lens  
FOR DAILY WEAR  
(Clear and Tinted)**

## Table of Contents

- Material characteristics
- Description of Lens
- Actions
- Indications
- Caution
- Warnings
- Precautions
- Adverse reactions
- Patient selection
- Fitting procedure
- Clinical Assessment
- Contraindications
- Follow-up examinations
- Lens Handling (in-office cleaning, disinfecting, and storage)
- Cleaning
- Rinsing
- Chemical (not-heat) lens care system
- Lens care directions
- Storage
- Recommended wearing schedule
- Frequent/Planned Replacement
- Recommended lens care products
- Emergencies
- Reporting of adverse reactions
- How supplied

**MATERIAL CHARACTERISTICS**

The **TORIC VISION Soft (hydrophilic) Contact Lens** is fabricated from the nonionic lens material which is a hydrophilic polymer of 2- Hydroxyethyl methacrylate (2-HEMA), Methyl methacrylate (MMA) and N-Vinyl-2-pyrrolidone (NVP) and it is cross-linked with ethylene glycol dimethacrylate (EGDMA), plus an initiator. The copolymer consists of 61% hema polymer and 39% water by weight when immersed in normal saline solution. The hydrophilic nature of the lens material allows the lens to become soft and pliable when immersed in an aqueous solution. The lenses are available clear or with a blue handling tint. Lenses are tinted with US FDA 'listed' color additive.

**DESCRIPTION OF LENS**

The **TORIC VISION Soft (hydrophilic) Contact Lens** is a single vision back surface astigmatic (toric) lens fabricated from a nonionic polymer.

In the hydrated state, the lens conforms to the curvature of the eye covering the cornea and extending slightly beyond the limbus forming a transparent or tinted optical surface. The hydrophilic properties of the lens require that it be maintained in a fully hydrated state in a solution compatible with the eye. If the lens dries out, it will become hard and appear somewhat warped however, it will return to its proper configuration when completely rehydrated in the proper storage solution.

Chord Diameter:	13.0 mm to 14.5 mm
Center Thickness:	0.100 mm to 0.202 mm
Base Curve:	8.0 mm to 9.4 mm
Spherical Powers	-20.00 Diopters to +20.00 Diopters
Cylinder Powers	0.00D ~ -7.00D All Axis(5° steps)

The hydrophilic characteristics allow aqueous solutions to enter the lens and in its fully hydrated state the lens is approximately 39% water by weight. The physical properties of the lens are:

Refractive Index	1.43 (hydrated)
Light Transmission (clear)	greater than 90%
Light Transmission (tinted)	greater than 90%
Water Content	39%±2%
Oxygen Permeability	9.77 X 10 <sup>-11</sup> (cm <sup>2</sup> /sec) (ml O <sub>2</sub> /ml x mm Hg @ 35°C), (revised Fatt method).

**ACTIONS**

In its hydrated state, the **TORIC VISION Soft (hydrophilic) Contact Lens**, when placed on the cornea, act as a refracting medium to focus light rays on the retina.

**INDICATIONS**

The **TORIC VISION Soft (hydrophilic) Contact Lens** for daily wear is indicated for the correction of visual acuity in aphakic and not aphakic persons with non-diseased eyes with myopia or hyperopia and/or possesses refractive astigmatism not exceeding 7.00 diopters. The lens is available clear or with a handling-tint.

Eyecare practitioners may prescribe the above lenses for frequent/planned replacement wear, with cleaning disinfection and scheduled replacement. When prescribed for frequent/planned replacement wear, the lens may be disinfected using a chemical disinfecting system.

### CAUTION

Due to the small number of patients enrolled in clinical investigation of lens, all refractive powers, design configurations, or lens parameters available in the lens material were not evaluated in significant numbers. Consequently, when selecting an appropriate lens design and parameters, the eyecare practitioner should consider all characteristics of the lens that can affect lens performance and ocular health, including oxygen permeability, wettability, central and peripheral thickness, and optic zone diameter.

The potential impact of these factors on the patient's ocular health must be carefully weighed against the patient's need for refractive correction. Therefore, the continuing ocular health of the patient and lens performance on the eye should be carefully monitored by the prescribing eyecare practitioner.

### WARNINGS

Please reference Warning in the Package Insert included at the end of this Fitting Guide.

### PRECAUTIONS

Please reference Precautions in the Package Insert included at the end of this Fitting Guide.

### ADVERSE REACTIONS

Please reference Adverse Reactions in the Package Insert Included at the end of this Fitting Guide.

### PATIENT SELECTION

Patient communication is vital. Patients who require visual correction but cannot adhere to the recommended care of the **TORIC VISION Soft (hydrophilic) Contact Lens** should not be provided with this lens. All necessary steps in lens care and all precautions and warnings should be discussed and understood by the patient (*Review Package Insert with patient*).

*Fitting procedure for TORIC VISION Soft (hydrophilic) Contact Lens (toric)*

**FITTING PROCEDURE**

1. Pre-fitting Examination
2. Initial lens power selection
3. Initial lens diameter and base curve selection
4. Initial lens evaluation
5. Follow-up care

**1. Pre-fitting Examination**

A pre-fitting patient history and examination are necessary to:

- Determine whether a patient is a suitable candidate for daily wear contact lens (refer to contraindications).
- Collect and record baseline clinical information to which post-fitting examination results can be compared.
- Make ocular measurements for initial contact lens parameter selection.

**2. Initial Lens Power Selection**

- a) Convert the spectacle Rx to minus cylinder forms
- b) Determine the cylinder axis  
Available any axis (5° steps)
- c) Determine the cylinder power  
Available powers are 0.00D ~ -7.00D
- d) Determine the sphere power
  1. Compensate the spherical Rx for vertex distance of the power is greater than plus or minus 4.00 diopters
  2. Add + 0.25 to sphere to compensate for the minus tear lens

**3. Initial Lens Diameter and Base Curve Selection**

The lens is currently offered in one diameter (14.0mm) and one base curve (8.4)

**4. Initial Lens Evaluation**

- a) Check Lens Centration, Movement, and Size

The criteria for a well fit lens is one which centers easily after a blink, bridges the limbus and extends onto the sclera about 1.5 millimeters, lags downward about 1 to 2 millimeters on upward gaze, and does not move excessively as a result of blinking or exaggerated eye movements.

After the trial lens settled on the eye (5 - 10 minutes), manipulate the lens using lid pressure and observe for indications of excessive tightness. The lens

should move freely and easily with the slightest pressure and return to the centered position when released.

Movement of the lens on the eye is very important in assessing the fit and performance of the lens. In primary gaze, slight vertical post-blinking lens movement should occur. On upward gaze, the lens should sag approximately 1 - 2 millimeters.

b) Refract Over the Lens and Determine Visual Acuity

Allow approximately 10 minutes for fluid equilibration and patient adaptation prior to over refracting. Determine best visual acuity when final over refraction has been achieved. If good visual acuity cannot be obtained through the lens with spherocylindrical over refraction, re-evaluation of the physical fit should be considered. Trial lens procedure should be repeated with lenses of different base curves.

**5. Follow-up Care**

- a) Follow-up examinations, as recommended by the eyecare practitioner, are necessary to ensure continued successful contact lens wear.
- b) Prior to a follow-up examination, the contact lenses should be worn for at least on continuous hour and the patient should be asked to identify any problems which might be occurring related to contact lens wear.
- c) With lenses in place on the eyes, evaluate fitting performance to assure that **CRITERIA OF A WELL FITTED LENS** continues to be satisfied. Examine the lenses closely for surface deposition and/or damage.
- d) After the lens removal, conduct a thorough biomicroscopy examination.
  - 1. The presence of vertical corneal striae in the posterior central cornea and/or cornea neovascularization is indicative of excessive corneal edema.
  - 2. The presence of corneal staining and/or limbal-conjunctival hyperemia can be indicative of an unclean lens, a reaction to solution preservatives, excessive lens wear, and/or a poorly fitting lens.
  - 3. Papillary conjunctival changes may be indicative of an unclean and/or damaged lens. If any of the above observations are judged abnormal, various professional judgments are necessary to alleviate the problem and restore the eye to optimal conditions. If the **CRITERIA OF A WELL FITTED LENS** is not satisfied during any follow-up examinations, the patient should be re-fitted with a more appropriate lens.

**CONTRAINDICATIONS (REASONS NOT TO USE)**

DO NOT USE the **TORIC VISION Soft (hydrophilic) Contact Lens** when any of the following conditions are present:

- Acute and subacute inflammation or infection of the anterior chamber of the eye.
- Any eye disease, injury, or abnormality that affects the cornea, conjunctiva, or eyelids.
- Severe insufficiency of lacrimal secretion (dry eyes).
- Corneal hypoesthesia (reduced corneal sensitivity), if not-aphakic.
- Any systemic disease that may affect the eye or be exaggerated by wearing contact lens.
- Allergic reactions of ocular surfaces or adnexa that may be induced or exaggerated by wearing contact lens or use of contact lens solutions.
- Allergy to any ingredient, such as mercury or thimerosal, in a solution which is to be used to care for the **TORIC VISION Soft (hydrophilic) Contact Lens**.
- Any active corneal infection (bacterial, fungi, or viral)
- If eyes become red or irritated.
- Patients unable to follow lens care regimen or unable to obtain assistance to do so.

**FOLLOW-UP EXAMINATIONS:**

- Within one week of lens dispensing
- After three weeks of lens wear
- After seven weeks of lens wear
- After each six month period of lens wear.

At the follow-up examinations, the patient should report good subjective quality of vision. Adaptation to vision with the **TORIC VISION Soft (hydrophilic) Contact Lens** should occur almost immediately and should definitely be reported within the first (1 week) follow-up visit. At these follow-up visits the practitioner should:

1. Check distance and near acuity with lens in place.
2. Over-refract to verify lens prescription.
3. Observe the position of the lens on the cornea. The lens should be centered and move on upward gaze and with a blink.
4. Evert the lids to examine the tarsal conjunctiva and check for incidence of giant papillary conjunctivitis.
5. Remove the lens. Check corneal curvature. There should be no substantial changes in either meridian.
6. Perform a slit-lamp examination with and without Fluorescein. Check for corneal edema, corneal abrasion, vascularization, corneal infiltrates, and perilimbal injection. Reinsert the lens only after all residual Fluorescein has dissipated from the eye.
7. Clean the lens with a prophylactic surfactant cleaner, and examine for deposits, foreign bodies or physical imperfections of the lens surface.

**LENS HANDLING (in-office cleaning, disinfecting and storage)**

Wash and rinse hands thoroughly, making certain all soap residues have been rinsed away before drying with a lint-free towel. *It is suggested to wet the lens while in the eye using wetting drops before removal.* Always start with the right lens first in order to avoid mixing the lens. In removing the lens, try to avoid touching the inside (concave) surface of the lens. It is possible, though not likely, that the lens might be inside out; therefore, check the lens by placing it on the index finger and examine its profile. If the edges of the lens tend to point outward, the lens is inside out. After removing the lens from its container assure that it is clean, clear and wet.

Each **TORIC VISION Soft (hydrophilic) Contact Lens** received in the eyecare practitioner's office is received sterile in a sealed glass vial with sterile normal saline solution and labeled as to the parameters of the lens contained. To assure sterility, the vial should not be opened until ready for use.

To open the vial pack, pull on the aluminum top where indicated. Upon removing the aluminum top cover, remove the rubber cap. Then the lens may be removed and is ready for use. Prior to reusing in a diagnostic procedure or before dispensing to a patient, the lens should be surfaced cleaned and disinfected.

### CLEANING

A surfactant cleaner must be used with the **TORIC VISION Soft (hydrophilic) Contact Lens** to ensure a clean lens surface. A single procedure is as follows:

Apply 3 to 4 drops to the lens, and then rub the surfaces of the lens against the palm of one hand with the index finger of the other hand or between the thumb and the forefinger for twenty seconds.

### RINSING

Thoroughly rinse both surfaces of the lens with a steady stream of fresh, sterile rinsing solution.

### CHEMICAL (NOT-HEAT) LENS CARE SYSTEM

A sterile rinsing, storing and disinfecting multipurpose solution should be used to rinse and chemically disinfect the **TORIC VISION Soft (hydrophilic) Contact Lens**. After cleaning the lens, rinse with a liberal amount of fresh multipurpose solution to remove loosened debris and traces of cleaner. The lens should then be placed in the plastic container supplied in a multi-purpose solution kit and filled with enough fresh disinfecting solution to completely submerge the lens. To ensure disinfecting, the lens must remain in the disinfecting solution for the recommended period of time as written on the multipurpose solution bottle. Before reinsertion, lens should be rinsed with fresh sterile rinsing solution.

### LENS CARE DIRECTIONS



Please reference LENS CARE DIRECTIONS in the Package Insert included at the end of this Professional Fitting Guide.

**STORAGE**

The **TORIC VISION Soft (hydrophilic) Contact Lens** must be stored in the recommended solutions. If exposed to the air, the lens will dehydrate. If a lens dehydrates, it should be soaked **ONLY** in a soft contact lens storage solution until it returns to a soft, supple state. It should not be put on an eye until it has been put through a complete disinfection cycle.

**RECOMMENDED WEARING SCHEDULE**

Close professional supervision is recommended to ensure safe and successful contact lens wear. If the patient complains of discomfort, decreased vision, ocular injection or corneal edema, the lens should be removed and the patient scheduled for examination. The problem may be relieved by putting the patient on a different wearing schedule or possibly by refitting the lens.

Patients tend to overwear the lens initially. It is important not to exceed the initial wearing schedule. Regular check-ups, as determined by the eyecare practitioner, are also extremely important. The maximum suggested wearing schedule for the **TORIC VISION Soft (hydrophilic) Contact Lens** is reflected below.

<u>DAY</u>	<u>HOURS</u>
1	6
2	8
3	10
4	12
5	14
6	All Waking hours*

**STUDIES HAVE NOT BEEN COMPLETED TO SHOW THAT THE MI GWANG COMFORT 38 CONTACT LENS IS SAFE TO WEAR DURING SLEEP.**

**FREQUENT/PLANNED REPLACEMENT**

The wearing and replacement schedules should be determined by the eyecare practitioner.

**RECOMMENDED LENS CARE PRODUCTS**

The eyecare practitioner should recommend a care system that is appropriate for the **TORIC VISION Soft (hydrophilic) Contact Lens**. Each lens care product contains specific directions for use and important safety information, which should be read and carefully followed.

## **EMERGENCIES**

The patient should be informed that if chemicals of any kind (household products, gardening solutions, laboratory chemicals, etc.) are splashed into the eyes, the patient should: **FLUSH EYES IMMEDIATELY WITH TAP WATER AND IMMEDIATELY CONTACT THE EYECARE PRACTITIONER OR VISIT A HOSPITAL EMERGENCY ROOM WITHOUT DELAY.**

## **REPORTING OF ADVERSE REACTIONS**

Practitioners should report any adverse reactions to the **TORIC VISION Soft (hydrophilic) Contact Lens** within 5 days to Mi Gwang Contact Lens Co., Ltd. Additional Fitting Guides, Package Inserts and Patient Instruction/ Wearer's Guides are available from:

### **Mi Gwang Contact Lens Co., Ltd.**

693, Namcheon-ro,  
Namcheon-myeon, Gyeongsan-si,  
Gyeongsangbuk-do, Korea.  
Tel: +82 53 811 2262  
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Email: [KRA@clearlab.com](mailto:KRA@clearlab.com)  
Website: [www.migwang.com](http://www.migwang.com)

## **HOW SUPPLIED**

Each lens is supplied sterile in a sealed glass vial containing normal saline solution. The glass vial is labeled with the base curve, diameter, dioptric power, manufacturing lot number, and expiration date of the lens.