



TEST SPECIFICATION

| | | | |
|----------|--|--------------|-------------------|
| Product: | Sunglasses | | |
| Scope: | Adults' and Children's Non-prescription Sunglasses (Without Photosensitive Lens) | Protocol No. | TYCP-09002-US |
| | | Version | 1.0 |
| | | Issue Date | Oct 11, 2011 |
| | | Prepared by | Intertek HK - TFH |
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Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

†: Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

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|---|---|--|--------|
| Supplemental Protocol(s) | | | |
| †* CA Prop 65 (mandatory in state California, US) | Intertek Protocol | Consent Judgment of related court cases based on California Proposition 65. See http://oehha.ca.gov/prop65.html | |
| †* CPSIA Supplemental (For Children Product) | TYCP-00001-US | Shall review against the CPSIA Supplemental and shall comply with all applicable requirements. See CPSIA Supplemental Protocol posted at http://www.taymarkinc.com . | |
| †* Children's Products Supplemental | TYCP-16026-US | Shall review against the Children's Products Supplemental and shall comply with all applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com | |
| *† Toys | Toys Protocol | Shall comply with applicable requirement in the protocol. See Toys Protocol posted at http://www.taymarkinc.com . | |
| Chemical Analysis | | | |
| *Lead Content of Paints or Similar Surface Coating | 16 CFR 1303 (scope widened) | Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% by weight of the total content (90ppm). | |
| *†Toxic Elements in Packaging Components | TPCH | Shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr ≤ 100ppm. In lieu of testing, certificate of compliance may be submitted if dated within one year. | |
| * Nickel Release (Other products intended to come into direct, prolonged skin contact) (By Request Only) | EN 1811 /EN 12472 /European Regulation (EC)No. 1907/2006,REACH Annex XVII Item 27(Formerly Known as Directive 94/27/EEC) | Should be less than 0.5µg/cm²/week. | |
| Physical Characteristic | | | |
| Overall Dimensions (L x W x H) | ITS-M0059 | Report dimensions, shall meet the label claims (If applicable) | |
| Overall Weight | ITS-M0059 | Report weight, shall meet the label claims (If applicable) | |
| Construction & Workmanship | | | |

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| Sharp Points / Edges | 16 CFR 1500.48/1500.49 (Scope widened) | Shall have no sharp points/edges, other than those required for function. | |
| Defects | Visual Check | Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters. | |
| Workmanship | Visual Check | Shall have no components missing, malformed, and/or fractured. | |
| Performance | | | |
| Functionality | ITS-M0061 | Shall function as intended as received | |
| Lens Retention | ITS-M0061 | Must be retained with a 5 lb. perpendicular force applied to the center of lens (both front and back) | |
| General Durability By Drop Test | ITS-M0053 | No damage or fractures with 3 drop @ 5 ft. to a vinyl-tiled concrete floor. | |
| Hinge Durability | ITS-M0061 | Shall function as intended after 250 open-close use cycles. | |
| †* Lens Impact Resistance (For FDA Requirement) | 21 CFR 801.410 | A statistically significant sample of glass lenses from EACH PRODUCTION BATCH must not fracture. P.S. The results of the testing, a description of the test method, and of the test apparatus, as well as copies of invoice(s), shipping document(s), and records of sale or distribution shall be kept and maintained for a period of 3 years. | |
| * Lens Impact Resistance (For Pre-Purchase Evaluation Only) | 21 CFR 801.410(d)(2) | 12 submitted glass lenses must not fracture. | |
| Flammability | 16 CFR 1500.44 (Referred from Guidance Document For Nonprescription Sunglasses) | Shall be less than 0.1 inch/second. | |
| Flammability | ANSI Z80.3, Section 4.3 | Shall not ignite when burn under 200°C for 15 min. | |
| Cosmetic Quality | ANSI Z80.3, Section 4.4 | Free of pits, scratches, grayness, water marks, bubbles, striae, local aberrations, and inclusions so as not to impair vision. | |
| Refractive Power | ANSI Z80.3, Section 4.5.1 | Within +1/8 diopter, -1/4 diopter within lens; Difference between lenses ≤ 3/16 diopter. | |
| Astigmatic Power | ANSI Z80.3, Section 4.5.2 | ≤ 1/8 diopter. | |
| Prismatic Power | ANSI Z80.3, Section 4.5.3 | ≤ ¼ prism diopter within lens, ≤ ½ prism diopter imbalance between lenses. | |

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| Transmittance Properties | ANSI Z80.3, Section 4.6.1 - 4.6.3 | Shall meet requirements for luminous and mean transmittance, traffic signal recognition and spectral transmittance. | |
| Qualification of Lens Types | ANSI Z80.3, Section 4.7.1, 4.7.3 & 4.7.4 | Shall meet requirements for polarizing lens, gradient density lens, or uniform density lens. | |
| Variation in Density | ANSI Z80.3, Section 4.8 | Density imbalance between lenses shall not exceed 0.12. | |
| * UV400 Claim (If applicable) | With reference to EN 1836 | Shall meet the claimed performance. | |
| * Resistance To Perspiration | ISO 12870, Clause 4.7 | No spot or color change after 8 hr; No corrosion, surface degradation or coating separation after 24 hrs. <i>Condition: Put the frame above artificial perspiration solution in an oven at 131 °F (55 °C) for 24 hrs. Observation made after 1st 8 hrs & then 24 hrs respectively.</i> | |
| * Transit Testing (By request only) | ISTA Procedure as Appropriate to Package | Packaged product shall be tested to applicable ISTA procedure and method, based on package configuration. Inspect package and product for damage upon completion of test. Report results | |
| For Children's Sunglasses | | | |
| † Mechanical Hazards | 16 CFR 1500.48-1500.53 & 16 CFR 1501 | Shall not contain any hazardous sharp points, sharp edges and small parts before and after use and abuse tests. | |
| Packaging Film | ASTM F963, Section 4.12 | Shall be ≥ 0.03175mm in actual thickness and ≥ 0.03810mm in nominal thickness OR Shall be perforated with defined holes so that a minimum of 1% of the area has been removed over any area of 1.18 x 1.18 in ² . (30 x 30 mm ²), if the average thickness is less than 0.03810mm. | |
| Labeling | | | |
| †One Time Use Products Fair Packaging and Labeling Act OR | F.P. & L. Act (16 CFR 500) OR | Manufacturer, packer, or distributor's name & address (City, state & zip). Product identification. | |
| †All Other Products Uniform Packaging and Labeling Regulations | NIST Uniform Laws and Regulations Handbook 130 | Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units). | |
| †Country of Origin Marking | 19 CFR 134.11 | Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Shall be visible at point of purchase. | |
| Parts Labeling | Visual Check | Shall match the actual content if present. | |



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| Use Labeling | ITS-M0060 | Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries. | |
| Verify Label claims | ITS-M0060 | Must comply with all claims | |
| Instructions | ITS-M0060 | Shall provide an easy understandable instructions regarding assembly, use and maintenance | |

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.

Note 1: Sampling Plan for FDA lens impact

| Lot / batch size (pairs of sunglasses) | Sample size |
|--|-------------|
| 2 to 8 | 2 |
| 9 to 15 | 3 |
| 16 to 25 | 5 |
| 26 to 50 | 8 |
| 50 to 90 | 13 |
| 91 to 150 | 20 |
| 151 to 280 | 32 |
| 281 to 500 | 50 |
| 501 to 1,200 | 80 |
| 1,201 to 3,200 | 125 |
| 3,201 to 10,000 | 200 |
| 10,001 to 35,000 | 315 |
| 35,001 to 150,000 | 500 |
| 150,001 to 500,000 | 800 |
| 500,001 to over | 1,250 |