

TEST SPECIFICATION

Product:	Pen/highlighter		
Scope:	All pens including Ball Pens, Fountain Pens, Markers, Highlighters and Novelty Pens with play value.	Protocol No.	TYCP-04002-US
		Version	1.0
		Issue Date	Sep 26, 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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Attribute	Test Method / Standard	Requirement / Limit	Result
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	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	
†*	TYCP-16026-US	Shall comply with the applicable requirements. See Children's Products (Non-toy) 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).	
* Lead Content In Ink	CPSC Guidance Letter 1	Shall not exceed 100ppm (0.01% by weight) total lead.	
*†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.	
Physical Characteristic			
* Ink Weight	16 CFR 1500.83 (a)(7)(iii)	Shall meet the requirement	
Length with cap (In.)	ITS-M0059	Report actual; shall meet label claims (if applicable).	
Length without cap (In.)	ITS-M0059	Report actual; shall meet label claims (if applicable).	
Diameter	ITS-M0059	Report diameter, shall meet the label claims (If applicable)	
Overall Weight	ITS-M0059	Report weight, shall meet the label claims (If applicable)	
Construction & Workmanship			
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.	
Leakage	Visual Check	No leakage – the ink reservoir is removed and along with the inner barrel examined for any visual sign of ink leakage.	

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Performance			
Functionality	ITS-M0061	Shall function as intended as received	
* Writing durability (on request)	In house method	Report linear accumulated writing distance in metre.	
Pen Cap Top Fit	ITS-M0061	Remains secure and suitable for use with no cracking, chafing or material damage - 100 on / off cycles at both ends of the casing	
Pen Cap Bottom Fit	ITS-M0061	Remains secure and suitable for use with no cracking, chafing or material damage - 100 on / off cycles at both ends of the casing	
Drop Test (If applicable)	ASTM F963 Section 8.7.1 (Modified)	No breakage or separation - 3 drops from 3 feet on vinyl floor	
Dry Out Time (Upright and Upside down)	ITS-M0061	Must not dry out after 30 minutes uncapped and exposed to room humidity and temperature	
Clip attachment (if applicable)	ASTM F963 Section 8.9 (Mod.)	Modification: Clip should withstand 10 Lbs. tension for 10 seconds	
Tip Durability	ITS-M0061	Should withstand 500 back and forth strokes.	
Starting Characteristics	ITS-M0061	Shall start off immediately writing cleanly with no blotching or smudging on three different surfaces (paper, scotch tape & cardboard).	
* Effects of Extreme Temperature & Humidity	ITS-M0007	Shall perform as intended after exposure to 120°F / 95%RH for 24 hours - No failure or visual change.	
* Moisture Content (solid wood only)	ITS-M0054	Shall be between 8% - 12%.	
* Resistance To Corrosion (For metal components)	ASTM B117 (Modified)	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification = 1% salt (fog) spray.	
* 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	
Labeling			
†One Time Use Products Fair Packaging and Labeling Act OR	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (City, state & zip).	
		Product identification.	
†All Other Products Uniform Packaging and Labeling Regulations		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).	

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†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.	
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.