

Product:	Pen/highlighter		
Scope:	All pens including Ball Pens, Fountain Pens, Markers, Highlighters and Novelty Pens with play value.	Protocol No.	TYCP-04002-NA
		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
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**NB: Where there is no applicable US or CN standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.**

Attribute	Citation	Requirement / Limit	Result
<b>Supplemental Protocols</b>			
<b>For US Only</b>			
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65.	
*†Children's Products Supplemental (Required if the product is graded as a children product)	Refer to TYCP-00004-US	Shall comply with all requirements in TYCP-00004-US.	
*†CPSIA Supplemental	Refer to TYCP-00001-US	Shall comply with all requirements in TYCP-00001-US.	
<b>For Canada Only</b>			
*†Children's Products Supplemental (Required if the product is graded as a children product)	Refer to TYCP-00004-CN	Shall comply with all applicable requirements.	
<b>Chemical Analysis</b>			
<b>For US Only</b>			
*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. <b>In lieu of testing, certificate of compliance may be submitted if dated within one year.</b>	
<b>For Canada Only</b>			
*Total Lead in Surface Coating	Canada Consumer Product Safety Act, Surface Coating Materials Regulations (Scope widened)	Shall not exceed 0.009% (90ppm) total lead.	
*Lead Content In Ink	CPSC Guidance Letter 1	Shall not exceed 100ppm (0.01% by weight) total lead.	
<b>Physical Characteristic</b>			
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)	
<b>For US Only</b>			
*Ink Weight	16 CFR 1500.83 (a)(7)(iii)	Shall meet the requirement	
<b>Construction &amp; Workmanship</b>			

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Sharp Points / Edges	16 CFR 1500.48/1500.49 (Modified)	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.	
<b>Performance</b>			
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)	ITS-M0053	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)	With reference to ASTM F963 Section 8.9	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	
<b>Labeling</b>			
Parts Labeling	ITS-M0060	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.	
Instructions	ITS-M0060	Shall provide an easy understandable instructions regarding assembly, use and maintenance	
Verify Label claims	Actual Use	Must comply with all claims	
<b>For US Only</b>			

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Attribute	Citation	Requirement / Limit	Result												
†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.													
†Plastic Bag Warning Statement (If applicable)	Visual Check / Requirements Based on Various State Laws	<p>If plastic bags with a thickness less than 1 mil and an opening size <math>\geq 5"</math> in diameter are present, the following warning statement shall be printed in a prominent place on each bag in English and appeared on both sides:</p> <p><b>WARNING: Keep this bag away from babies and children. Do not use in cribs, beds, carriages or playpens. The thin film may cling to nose and mouth and prevent breathing. This bag is not a toy.</b></p> <p>If the total length and width is <math>&gt; 40"</math>, the warning shall be repeated in 20-inch intervals. The font size shall adhere to:</p> <table border="1"> <thead> <tr> <th>Total Length and Width of Bag</th> <th>Font</th> </tr> </thead> <tbody> <tr> <td>60 inches or more</td> <td>at least 24 point</td> </tr> <tr> <td>40 inches to less than 60 inches</td> <td>at least 18 point</td> </tr> <tr> <td>25 inches to less than 40 inches</td> <td>at least 14 point</td> </tr> <tr> <td>less than 25 inches</td> <td>at least 10 point</td> </tr> </tbody> </table>	Total Length and Width of Bag	Font	60 inches or more	at least 24 point	40 inches to less than 60 inches	at least 18 point	25 inches to less than 40 inches	at least 14 point	less than 25 inches	at least 10 point			
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<b>For Canada Only</b>															
†Pre-packaged Product	Consumer Packaging and Labelling Act, R.S. 1985, c. C-38 and Regulations, C.R.C., c. 417	<p>The net quantity declaration shall present on Principal Display Panel (PDP) in English and French, metric units.</p> <p>The numerical quantity shall be bold type with letter height based on the size of Principle Display Surface (X):</p> <table border="1"> <thead> <tr> <th>Size of Principle Display Surface</th> <th>Minimum letter height</th> </tr> </thead> <tbody> <tr> <td><math>X \leq 32 \text{ cm}^2 (5 \text{ in}^2)</math></td> <td>1.6 mm (1/16 in)</td> </tr> <tr> <td><math>32 \text{ cm}^2 &lt; X \leq 258 \text{ cm}^2 (40 \text{ in}^2)</math></td> <td>3.2 mm (1/8 in)</td> </tr> <tr> <td><math>258 \text{ cm}^2 &lt; X \leq 645 \text{ cm}^2 (100 \text{ in}^2)</math></td> <td>6.4 mm (1/4 in)</td> </tr> <tr> <td><math>645 \text{ cm}^2 &lt; X \leq 25.8 \text{ dm}^2 (400 \text{ in}^2)</math></td> <td>9.5 mm (3/8 in)</td> </tr> <tr> <td><math>25.8 \text{ dm}^2 (400 \text{ in}^2) &lt; X</math></td> <td>12.7 mm (1/2 in)</td> </tr> </tbody> </table> <p>All other information in the net quantity declaration (i.e. units of measurement statements, abbreviations, symbols, etc.) shall be shown in minimum 1.6 mm letter height.</p>	Size of Principle Display Surface	Minimum letter height	$X \leq 32 \text{ cm}^2 (5 \text{ in}^2)$	1.6 mm (1/16 in)	$32 \text{ cm}^2 < X \leq 258 \text{ cm}^2 (40 \text{ in}^2)$	3.2 mm (1/8 in)	$258 \text{ cm}^2 < X \leq 645 \text{ cm}^2 (100 \text{ in}^2)$	6.4 mm (1/4 in)	$645 \text{ cm}^2 < X \leq 25.8 \text{ dm}^2 (400 \text{ in}^2)$	9.5 mm (3/8 in)	$25.8 \text{ dm}^2 (400 \text{ in}^2) < X$	12.7 mm (1/2 in)	
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		Product identification shall be shown on Principal Display Panel (PDP) in English and French, minimum 1.6 mm letter height.	
		Dealer's name and principal place of business (address) shall be shown on any part of label except bottom, English or French, minimum 1.6 mm letter height. For imported goods, the name and address of the dealer outside Canada or the name and address of Canadian dealers shall be preceded by "imported by" (" <i>importé par</i> ") or "imported for" (" <i>importé pour</i> "), unless a statement of geographic origin is located immediately adjacent to the name and address of a Canadian dealer, and shown with letter height at least as large as those used in the declaration of the Canadian dealer's principal place of business.	
The Language of Inscription (mandatory in Quebec)	The Charter of French Language, Title I, Chapter VII, Clause 51 & Regulations adopted under the Charter of French Language	Every inscription on the following shall be drafted in French, - product - product container or wrapping - document or object supplied with it (e.g. directions for use, warranty certificates) No inscription in another language may be given greater prominence than that in French. For exceptions, check the following webpage:— <a href="http://www.olf.gouv.qc.ca/english/regulations/reg_business.html#div1">http://www.olf.gouv.qc.ca/english/regulations/reg_business.html#div1</a>	
†Country of Origin	Customs Tariff, Marking of Imported Goods Regulations, SOR/94-10	The country of origin marking of Non-NAFTA imported goods shall be present in English or French.	

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

**Key:** \*: Additional Charge Items †: Mandatory Requirement

#### Testing Charge & Sample Size & Turnaround Time

<b>Basic Package Price</b>	USD 250 (NET)	
<b>Sample Size for Basic Package</b>	5 pieces (additional samples may be required for tests with additional charge)	
<b>Turnaround Time for Basic Package</b>	7 working days	
<b>Additional Charge (Subject to client discount)</b>		
a. CA Prop 65	On Quote	Subject to actual sample
b. Children's Products Supplemental - US	Refer to TYCP-00004-US	Refer to TYCP-00004-US
c. CPSIA Supplemental	Refer to TYCP-00001-US	Refer to TYCP-00001-US
d. Children's Products Supplemental - CN	Refer to TYCP-00004-CN	Refer to TYCP-00004-CN
e. Lead Content of Paints or Similar Surface Coating (US)	USD 31 per coating	0.5 grams of coating on finished product
f. Lead content in ink (CPSC Guidance letter 1)	On Quote	0.5 grams
g. Toxic Elements in Packaging Components	USD54 per result	0.5 grams of material

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h. Total Lead in Surface Coating (CN)	USD 31 per coating	0.5 grams of coating on finished product
i. Weight of ink (16 CFR 1500.83 (a)(7)(iii))	USD 13 per result	Subject to actual sample
j. Writing durability (linear accumulated writing distance)	USD 295	3 pieces
k. Effects of Extreme Temperature & Humidity	USD 64 per result	2 pieces
l. Moisture Content	USD 37	1 pieces
m. Resistance to Corrosion	USD 54	2 pieces
n. Transit Testing	ISTA 1A: USD 179 ISTA 1B: USD 231	1 full carton with products

Issue No.	Revision Date	Changes	Prepared by	Approved by
1.0	05 Oct 2012	Initial release	Mondy Tung	Taylor (Emily) on 08 Jan 2013