

## TEST SPECIFICATION

Product:	Games		
Scope:	Includes chess, checkers, backgammon, dominoes, Sudoku book, card games, and other similar games.	Protocol No.	TYCP-16006-US
		Version	1.0
		Issue Date	Sep 21 2011
		Prepared by	Alex Ma
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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
<b>Supplemental Protocol(s)</b>			
*†CA Prop 65 (Mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65. See <a href="http://oehha.ca.gov/prop65.html">http://oehha.ca.gov/prop65.html</a>	
<i>Note: Additional cost, sample size &amp; TAT may be required if testing to 1 or more supplemental protocols is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.</i>			
<b>Chemical Analysis</b>			
*†Lead Content of Accessible Component Part	Consumer Product Safety Improvement Act of 2008 (Public Law 110-314)	Any part of the product shall not contain more lead than the following limit (total lead content by weight). On or After August 14, 2009: 0.03% (300ppm) On or After August 14, 2011: 0.01% (100ppm)	
*†Lead Content of Paints or Similar Surface Coating	16 CFR 1303 / ASTM F963-08, Section 4.3.5.1	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).	
*†Phthalates (CPSIA)	Consumer Product Safety Improvement Act of 2008 (Public Law 110-314) / ASTM D3421	Toy or Child care article shall contain the following phthalates in concentrations below 0.1%: DEHP : Di (2-Ethylhexyl) Phthalate DBP : Dibutyl Phthalate BBP : Benzyl Butyl Phthalate  In addition, Toy that can be placed in a child's mouth or Child care article shall contain the following phthalates in concentrations below 0.1%: DINP : Diisononyl Phthalate DIDP : Di-isodecyl Phthalate DNOP : Di-n-octyl Phthalate	
*Phthalates (CA Legislature Assembly Bill AB1108)	ASTM D3421	Toy or Child care article shall contain the following phthalates in concentrations below 0.1%: DEHP : Di (2-Ethylhexyl) Phthalate DBP : Dibutyl Phthalate BBP : Benzyl Butyl Phthalate  In addition, Toy or Child care article intended for use by a child under three years of age if that product can be placed in the child's mouth shall contain the following phthalates in concentrations below 0.1%: DINP : Diisononyl Phthalate DIDP : Di-isodecyl Phthalate DnOP : Di-n-octyl Phthalate	

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*†ASTM F963 Soluble heavy metals content in Paint and Similar Surface Coating Materials	ASTM F963-08, Section 4.3.5.2 / 8.3	Paint and other similar surface-coating materials applied to toys shall not contain compounds of which the metal content of the <i>soluble</i> material exceeds the levels by weight (mg/kg) of the contained solid including pigments, film solids and driers [Antimony (Sb) 60, Arsenic (As) 25, Barium (Ba) 1000, Cadmium (Cd) 75, Chromium (Cr) 60, Lead (Pb) 90, Mercury (Hg) 60, Selenium (Se) 500]	
*†Toxic Elements in Packaging Components (CONEG)	TPCH	Shall comply with TPCH in those states in the US with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr < 100ppm.	
<b>Physical Characteristics</b>			
Overall Dimensions	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Overall Weight	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
<b>Construction &amp; Workmanship</b>			
Sharp Points / Edges	16 CFR 1500.48 / 1500.49 (Mod.)	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.	
Material Quality	ASTM F963-08, Section 4.1	New or reprocessed materials that used in toy shall be visually clean and free from infestation	
<b>Performance Test</b>			
Drop Test	16 CFR 1500.50 / ASTM F963-08, Section 8.7.1	No breakage or separation when tested in accordance with the cited regulation	
Small Objects	ASTM F963-08, Section 4.6	Shall conform to the requirements stated in this section before and after use and abuse tests.	
- Small Objects	16 CFR 1501 ASTM F963-08, Section 4.6.1	Toys intended for children under 36 months (3 years) of age shall not include removable, liberated components, or fragments of toys before or after use and abuse that are small enough (without being compressed) to fit entirely within the small parts cylinder.	
Accessible Edges	ASTM F963-08, Section 4.7	Shall conform to the requirements stated in this section before and after use and abuse tests.	
- Potential Sharp Edges	16 CFR 1500.49 ASTM F963-08, Section 4.7.1	Shall not contain any hazardous sharp edges before and after use and abuse tests, if intended for children under 8 years of age.	
Accessible Points	ASTM F963-08, Section 4.9	Shall conform to the requirements stated in this section before and after use and abuse tests.	
- Potential Sharp Points	16 CFR 1500.48 ASTM F963-08, Section 4.9.1	Shall not contain any hazardous sharp points before and after use and abuse tests, if intended for children under 8 years of age.	

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Packaging Film	ASTM F963-08, Section 4.12	Shall be $\geq 0.03175\text{mm}$ in actual thickness and $\geq 0.03810\text{mm}$ 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 $1.18 \times 1.18 \text{ in}^2$ . ( $30 \times 30 \text{ mm}^2$ ), if the average thickness is less than $0.03810\text{mm}$ .	
Magnets	ASTM F963-08, Section 4.38.2	Toys shall not liberate a hazardous magnet or hazardous magnetic component after abuse test.	
*Flammability on Solids- Material other than Textiles	16 CFR 1500.44 ASTM F963-08, Section 4.2 & Annex A4	Burn rate $\leq 0.10 \text{ inch/s.}$ along the major axis of the toy, Accept Burn rate $>0.10 \text{ inch/s.}$ but $< 0.15 \text{ inch/s.}$ along the major axis of the toy, Accept but further investigation for improving performance should be considered. (Exempt Kite, excluding paper.)	
*Vibration 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 Requirement</b>			
One Time Use Products	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)	
†Fair Packaging and Labeling Act OR All Other Products		Product identification	
†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).	
†Country of Origin Marking	19 CFR 134	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.	
Verify Label Claims	ITS-M0060	Shall comply with all claims.	
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 include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes	
†Tracking labels for children's products	Consumer Product Safety Improvement Act of 2008 (Public Law 110-314)	A permanent and distinguishing mark on the product and its packaging, to the extent practicable, enabling the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.	

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†Age Grading	ASTM F963-08, Section 5.2 / Annex A1 and Determination Guidelines: Relating Children's Ages to Toys Characteristic and Play Behavior 2002 by CPSC	All toys shall be labeled to indicate the minimum age for intended use.  <i>Testing would be conducted according to either the labeled age grade or the appropriate age grade, as determined by Intertek, whichever is more stringent. In case if the product is not age labeled, the appropriate age grade will be determined by Intertek and tested accordingly.</i>	
*†Warning Statement - Total Lead content (for children product - mandatory in state of Illinois)  [Children product = Jewelry / painted toy intended for children under the age of 12 & child care article, facilitates sleep, relaxation, feeding, help sucking / teething, under age of 6]	Public Health (410 ILCS 45/1) the Lead Poisoning Prevention Act	Effective on Jan 1, 2010, the total Lead content in any component part that is more than 0.004% (40ppm) but less than 0.06% (600ppm) by total weight or a lower standard established by federal or state law or regulation unless the item bears a warning statement that indicates that at least one component part of the item contains Lead. The warning statement for items shall contain at least the following: "WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. MAY GENERATE DUST CONTAINING LEAD."  The statement shall be (Compliance with 16 CFR 1500.121 adopted under the FHSA constitutes compliance with the following labeling requirement): - located in a prominent place on the item or on the label on the immediate container of the item or package such that consumers are likely to see the statement under retail conditions - conspicuous and not obscured by other written matter; legible - contrast with the typography, layout and color of the other printed matter	
Promotional Materials	ASTM F963-08, Section 5.16	Packaging, literature accompanying toys, and point-of-sale presentations shall not use words, statements, or graphic material that are inconsistent in any way with the safety labeling instructions for use assembly or age grading of the toy.	
Definition and Description	ASTM F963-08, Section 6.1	Information and instructions provided for the safe use or assembly of a toy shall be easy to read and understand by persons of the age level for whom the toy is intended. Shall be in the English language at a minimum.	
Producers Markings	ASTM F963-08, Section 7.1	Either a principal component of a toy or the packaging of a toy shall be marked with the name and address of the producer or the distributor.	

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†Warning Label for Small Parts	16 CFR 1500.19 ASTM F963-08, Section 4.6.3 / 5.11.1 / 5.11.2	For toys and games intended for use by children who are at least three (3) years old but less than six (6) years of age shall bear a cautionary statement on the principal display panel of the package if the game includes small parts (unless exempt as defined).  ⚠ WARNING: CHOKING HAZARD – Small parts. Not for children under 3 yrs.	
†Warning Label for Small Balls	16 CFR 1500.19 ASTM F963-08, Section 4.34.2 / 5.11.1 / 5.11.3	Any small ball intended for children three (3) years of age or older shall bear a cautionary statement.  ⚠ WARNING: CHOKING HAZARD – This toy is a small ball. Not for children under 3 yrs.	
†Warning Label for Toys Contain Small Ball	16 CFR 1500.19 ASTM F963-08, Section 4.34.2 / 5.11.1 / 5.11.3.1	Any toy or game intended for children who are at least three (3) years old but less than eight (8) years of age that contain a small ball shall bear a cautionary statement.  ⚠ WARNING: CHOKING HAZARD – This toy contains a small ball. Not for children under 3 yrs.	
†Warning Label for Marble	16 CFR 1500.19 ASTM F963-08, Section 4.33.1 / 5.11.1 / 5.11.4	Any marble intended for children three (3) years of age or older shall bear a cautionary statement.  ⚠ WARNING: CHOKING HAZARD – This toy is a marble. Not for children under 3 yrs.	
†Warning Label for Toys Contain Marble	16 CFR 1500.19 ASTM F963-08, Section 4.33.1 / 5.11.1 / 5.11.4.1	Any toy or game intended for children who are at least three (3) years old but less than eight (8) years of age that contains a marble shall bear a cautionary statement.  ⚠ WARNING: CHOKING HAZARD – This toy contains a marble. Not for children under 3 yrs.	
†Safety Labeling for Magnets	ASTM F963-08, Section 5.17 & 5.3	Hobby and crafts items and science kit-type items for children over 8 years of age containing a loose as-received hazardous magnet or a loose as-received hazardous magnetic component shall bear the following label:  ⚠ WARNING: This product contains (a) small magnet(s). Swallowed magnets can stick together across intestines causing serious infections and death. Seek immediate medical attention if magnet(s) are swallowed or inhaled.	



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†Labeling Requirement for Advertising Toys and Games	Consumer Product Safety Improvement Act of 2008 (Public Law 110-314), Section 105	When a product's packaging requires a cautionary statement, the advertising for the product, including Internet sites and catalogues, must bear the same cautionary statement per 16 CFR 1500.19.  <b><i>It is client's responsibility to comply with this requirement.</i></b>	
<b>Certification</b>			
†General Certification of Conformity	Consumer Product Safety Improvement Act of 2008 (Public Law 110-314)	The product shall be certified by the manufacturer and/or the importer that the product has undergone a reasonable testing program and is found to comply with the applicable ban, rule and standard, for example: Effective March 23, 2009 - 16 CFR 1303 Total Lead Content in Paint - 16 CFR 1501 Small Parts - Total Lead Content in Metal Component of Children's Jewelry Effective February 10, 2010 - Federal Hazardous Substances Act § 3: Total Lead Content {CPSIA (H.R. 4040) Title 1 section 101} - Consumer Product Safety Act § 8: Phthalate content {CPSIA (H.R. 4040) Title 1 section 108} - 16 CFR 1500.48 & 49 Sharp Point & Sharp Edge  <b><i>It is client's responsibility to comply with this requirement.</i></b>	

**Important note:**

The information presented under the "Criteria" of this protocol is for information only and does not replace the content of the standard. Details of the requirements should be referred to the original standards.

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

**Abuse Test Parameters for physical & Mechanical Test**

Test	Age (Months)	Numerical Value
Impact Test	0 to 18	10 X 4.5 ft ± 0.5 in. (137cm)
	Over 18 to 36	4 X 3.0 ft ± 0.5 in. (91cm)
	Over 36 to 96	4 X 3.0 ft ± 0.5 in. (91cm)
Torque Test	0 to 18	2 ± 0.2 in.·lbf (0.23 N·m)
	Over 18 to 36	3 ± 0.2 in.·lbf (0.34 N·m)
	Over 36 to 96	4 ± 0.2 in.·lbf (0.45 N·m)
Tension Test	0 to 18	10 ± 0.5 lbf (44.5 N)
	Over 18 to 36	15 ± 0.5 lbf (66.8 N)
	Over 36 to 96	15 ± 0.5 lbf (66.8 N)
Compression Test	0 to 18	20 ± 0.5 lbf (89.0 N)
	Over 18 to 36	25 ± 0.5 lbf (111.3 N)
	Over 36 to 96	30 ± 0.5 lbf (133.5 N)
Flexure Test	0 to 18	10 ± 0.5 lbf (44.5 N)
	Over 18 to 36	15 ± 0.5 lbf (66.8 N)
	Over 36 to 96	15 ± 0.5 lbf (66.8 N)