

TEST SPECIFICATION

Product:	Straws		
Scope:	This is applicable for plastics drinking straws, including long term use as well as disposable	Protocol No.	TYCP-02056-US
		Version	1.0
		Issue Date	Oct 20, 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)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65. See http://oehha.ca.gov/prop65.html	
*† Children's Products (non-toy)	TYCP-00004-US	Shall review against the Children's Products Supplemental and shall comply the applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com	
*† 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	
<i>Note: Additional cost, sample size & TAT may be required if testing to one or more supplemental protocols is necessary. Please refer to the above referenced supplemental protocol(s) for additional information.</i>			
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). (If applicable)	
*† FDA Solvent Extractive on Plastic Materials	21 CFR 170 – 189	Products intended for use in contact with food shall conform to the applicable requirements of the Food, Drug, and Cosmetic Act (FDCA), specifically 21 CFR 170 through 189.	
* Bisphenol A content (if applicable)	Various state laws (e.g. CT, MN, Chicago City (IL), NY, MA, ME, MD, VT, WI) / High Performance Liquid Chromatography	The following products shall not contain any detectable levels of Bisphenol-A (BPA): <ul style="list-style-type: none"> • Infant formula/ baby food plastic container, jar or can • All reusable or disposable food or beverage containers including lids and cups • Baby bottle liners • Toys (for aged 12 and younger, Maine) • Child Care Articles (for aged 3 and younger, Maine) • Pacifiers (or other sucking and teething products) • Straws <p>Actual testing will be conducted on All Plastics materials only. Vendors shall be responsible for the compliance of all other materials.</p> <p>This is a client requirement before the date of enactment for various states laws and proposed legislations.</p>	

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*†Toxic Elements in Packaging Components	TPCH	Shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr \leq 100 ppm.	
Physical Characteristic			
Overall Dimensions	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Overall Weight	ITS-M0059	Report overall weight for long-term use straw; shall meet label claims (if applicable). - for disposables, report average weight of 10 pcs; shall meet label claims (if applicable).	
*Material Type	FTIR	Shall meet 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. (If applicable)	
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.	
Color Uniformity	Visual Check	Shall have no major defects. Note: This is for long-term used straws only, not for disposables.	
Performance Test			
- for both straws			
Stain Resistance	ITS-M0014	Applying various food materials - for long-term use: shall not be stained permanently. - for disposables: shall not be stained permanently after applied the food materials for 2 hrs.	
- for rigid long-term use straws only			
*Dishwasher Safe (if claimed)	ITS-M0001	Dishwasher / detergent 5 cycles - no color change or adverse effects.	
Handwash Safe (if not claimed as dishwasher safe)	ITS-M0003	Shall exhibit no exterior surface degradation after hand washed 5 times using a 3M Scotch-Bright scrub sponge & liquid hand dishwashing detergent, followed by a rinse of tap water.	
*Detachable Small Parts (if applicable)	ASTM F963-08 Section 4.6.3; Section 8 (Modified)	Any small parts which may be a choking hazard for children shall not be easily detached with a force of less than 90 N.	
*Durability and Fitness of Accessories (if applicable)	Actual Use	Shall withstand repeat detaching/attaching and/or opening/closing of the accessories 100 times.	

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*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 Requirement			
One Time Use Products †Fair Packaging and Labeling Act OR All Other Products †Uniform Packaging and Labeling Regulations	F.P. & L. Act (16 CFR 500) OR NIST Handbook 130 Uniform Laws and Regulations	Manufacturer, packer, or distributor's name & address (city, state & zip).	
		Product Identification.	
		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.	
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	
Bisphenol-A Content of Food or Beverage Container for Children Age 3 Years or Younger	BPA-Free Kids Act of 2009 (Proposed)	Food or beverage container containing no Bisphenol-A shall bear a statement "BPA-Free Product" on the container or its packaging. Refer to Chemical Analysis section for details.	

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