

## Test Specification

Product:	Glassware [Food-Contact use]		
Scope:	All types of glasswares for food-contacting use, such as Dinner plate, Bowl, Tumbler, Goblet, Stemware, etc.	Protocol No.	ITS-02002-US
		Version	1.0
		Issue Date	Sep 30, 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
<b>Supplemental Protocol(s)</b>			
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court case based on California Proposition 65 See <a href="http://oehha.ca.gov/prop65.html">http://oehha.ca.gov/prop65.html</a>	
*† Children's Products (non-toy)	TYCP-16026-US	Shall review against the Children's Products Supplemental and shall comply the applicable requirements. <a href="http://www.taymarkinc.com">http://www.taymarkinc.com</a>	
<i>Note: Additional cost, sample size &amp; 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>			
<b>Chemical Analysis</b> - referencing tests for ceramic food contacting articles.			
*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).	
*Extractable Cadmium & Lead from Interior of Product	FDA CPG 7117.06 + 7117.07 (scope widened)	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)	
* Extracted Lead and Cadmium from Rim Decoration	SGCD / ASTM C927-80 (R2004)	If the cup/mug is decorated in the top 2 cm: Pb: 4.0 ppm Cd: 0.4 ppm	
* Extractable Cadmium & Lead in tableware	California Health and Safety Code section 108860	Cd: 0.25 ppm (Large Hollowware / Pitchers) 0.5 ppm (Small Hollowware / Cups / Mugs) 0.5 ppm (Flatware) Pb: 1.0 ppm (Large Hollowware) 2.0 ppm (Small Hollowware) 0.5 ppm (Cups / Mugs / Pitchers) 3.0 ppm (Flatware)	
†* FDA Solvent Extractive on Plastic Materials and Polymeric Coatings which may have contact with food	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. Test report or suitable certificate with declaration letter confirming the plastic material that is used for food-contact meeting the FDA requirements shall be provided.  In lieu of testing, the above documents can be submitted if dated within 1 year.	

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*†Toxic Elements in Packaging Components	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 Characteristic</b>			
Dimensions (L x W x H) (In.)	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Weight (Lbs. / Oz.)	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
Capacity (Fl. oz.)	ITS-M0059	Report overall capacity; shall meet label claims (if applicable).	
<b>Construction &amp; Workmanship</b>			
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.	
Type of Material	Visual Check	Report actual; shall meet label claims (if applicable).	
Top/Lid Fitting Ability	Visual Check	Shall provide a secure but not locking fit.	
<b>Performance Test</b>			
*Dishwasher Safe (If applicable)	ITS-M0001	10 cycles of normal wash with domestic detergent – No breakage or adverse effects.	
Hand-washing Safe (If claimed to be not dishwasher safe)	ITS-M0003	10 cycles of hand wash in using domestic detergent rubbed with damp cloth gently with warm water (140 °F) - No breakage or adverse effects..	
* Microwave Safe (If claimed)	ASTM C1607 (Modified)	<p>Shall have no crack or damage after test.</p> <p>The surface temperature after test:            For flatware            - After 1 minute test: symbol 160°F (71°C)            - After 5 minutes test: symbol 325°F (163°C)            For cups and mugs            - Handle: symbol 140°F (60°C)            - Body: symbol 250°F (121°C)</p> <p>Notes:            - Expanded the scope to test on glassware claimed “microwave safe”.            - Modification: A microwave oven with 1000 Watts power was used.</p>	
Tilt Resistance	ITS-M0015	No tipping on 10° incline.	

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Integrity of Handle Strength (Only for items with lifting handles)	EN ISO 8442-8:2001 Clause 6.2	No breakage at handle.	
* Thermal Shock Endurance	EN 1183:1997 Test Method B & PAS 54 Clause 4.1.4	For cups, mugs, teapots and coffee pots Temperature differential $\geq 194^{\circ}\text{F}$ ( $90^{\circ}\text{C}$ ) For ovenware Temperature differential $\geq 302^{\circ}\text{F}$ ( $150^{\circ}\text{C}$ )  Note: Temperature of cold water bath was set at $68^{\circ}\text{F}$ ( $20^{\circ}\text{C}$ )	
*Resistance to Corrosion (Metal Components)	ASTM B117-03 (Modified)	Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change.	
* Annealing Performance	ASTM C148	Shall have a max real temper number of 4	
Leakage	ITS-M0061	Fill the container with ink-stained water up to its maximum capacity and stand on a white blotted paper for 24hr. No visible stain mark on the paper.	
*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.	

## Labelling

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 134.11	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. Must be visible at point of purchase.	
Parts Labeling	Visual Check	Shall match the actual content if present.	
Verify Label claims	ITS-M0060	Must 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	
† Marking for Tableware items for the State of California	CA Health & Safety Code, section 108870	All tableware items distributed in the State of California with lead or cadmium intentionally added or which are unintentionally contaminated must be permanently and indelibly marked with the name, or if the item is too small, a registered trademark, of the manufacturer or importer.	

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

If the order quantity > 2000pcs per year, 12 pieces of samples are requested for Leachable Pb & Cd for California Prop 65.

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