


TEST SPECIFICATION

Product:

Candles

Scope:

Dinner candles (or taper), pillar candles, tealights,
Novelty sculptured candles, wax filled container
candles or floating, birthday candles

Protocol No.

TYCP-01001-US

Version

1.0

Issue Date

Sep 21 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 case based on California Proposition 65 See http://oehha.ca.gov/prop65.html	
<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).	
*†Lead in Metal-Cored Wicks	16 CFR 1500.17(a)(13)	Must be less than 0.06% (600ppm) total lead.	
*†Flashpoint of Fragrance Liquid on Raw Materials (If Applicable) (Gel Candles Only)	16 CFR 1500.43a / 16 CFR 1500.3(c)(6)	Flashpoint shall be greater than 150° F.	
*Polarity of Fragrance on Raw Materials (Gel Candles Only)	Combine fragrance with mineral oil: 1) 25% fragrance and 75% mineral oil; 2) 75% fragrance and 25% mineral oil.	Report. Fragrance shall be non-polar (100% soluble with no separation) at the two ratios of fragrance and mineral oil.	
*†Paraffin Content Only for candles imported from China.	US Customs Laboratory Methods USCL 34-07	Only for candles imported from China. Non-novelty candles must not contain paraffin wax .	
*Citronella Content Only for citronella candles that are imported.	TP-044	Report the percentage of citronella in the candle. Must meet the customs definition of ≥ 3% pesticide to be exempt from the dumping tariff.	
*† Food Contact Materials (If applicable, e.g. plastic used in candle holder for birthday candles)	FDA, 21, CFR Parts 175 & 177 per Plastic Type	Test report or suitable certificate with declaration letter shall be provided to confirm that the plastic material used with food contact meet the FDA requirements as stated in the CFR. The correct CFR section reference will be dependent on the identity of the polymer or other material (Document is valid for 1 years). Actual test will be required with additional charge if the above documents cannot be provided.	
*†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.	
Physical Characteristics			
Dimensions of Candle (L x W x H)	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Weight of Candle	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	

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Wick Length	ITS-M0059	Report overall length; shall meet label claims (if applicable).				
Fragrance	Sensory	Must comply with claims				
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.				
Workmanship	Visual check	Free from bubbles, foreign materials, cracks; Shall not wobble on a flat surface				
Terracotta container	Visual check	Shall be glazed at inner surface without seepage				
Performance Test						
Flame Height	ASTM F2417 Section 4.1	Flame height shall not exceed the following limits when measured from the base of the flame to the tip of the flame: Tealight : max 1” Pillar : max 2.5” Results for outdoor and other exempted candles shall be reported as data only.				
Secondary Ignition	ASTM F2417 Section 4.2	Shall not cause secondary ignition, such as igniting material other than the intended wick during candle burning testing.				
End of Useful Life	ASTM F2417 Section 4.3	Shall not break / crack the container, exhibit excessive flame height, or exhibit secondary ignition prior to end of useful life. The flame of freestanding candles must not impinge on the supporting surface.				
Stability (If Applicable)	ASTM F2417 Section 4.4	Candles that do not require a holder to keep them upright, shall not tip over when placed on a minimum 10° incline. Asymmetrical items - Rotation around vertical axis is required.				
Surface Temperature (For wax filled container)	Intertek Recommendation		Metal	Ceramic/Glass	Plastics	
		Part intended to be held	55°C	65°C	75°C	
		Parts likely to be touched	105°C	120°C	125°C	
		Base	110°C	125°C	135°C	
Burning Time	Standard Measurement	As approval sample – Must comply with claims (Report claimed & actual length of burn time in hours)				
Burning Characteristics / Abnormalities	Adopted ASTM F2417 Section 5.2	Report any abnormalities (e.g., Glitter popping, small rocks exploding) during burn performance testing that may result in property damage and / or be a potential hazard.				
Soot Build Up	Visual Check	No visually excessive build up of residue on container walls.				
*Sooting Behaviour (Test 1 piece)	ASTM F2326	Report actual				
Spillage	Intertek Recommendation	Shall not exhibit the spillage : - Taper : No dripped wax that reach the bottom of the holder - Pillar & others : Max 10% - Novelty candles : No limit				
Afterglow	EN 15493, Clause 4.5	The wick shall not continue to glow or smoke for more than 20 s after extinguishing.				

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*Thermal shock (For glass container)	ASTM F2179, Clause 4.2 (Modified)	Shall not crack or break at a thermal shock temperature differential of 50°C. Note : Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.	
*Annealing performance (For glass container)	ASTM F2179 Section 4.1.1 & ASTM C148 (Modified)	Shall have a max real temper number of 4. Note: Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.	
	ASTM F2179 Section 4.1.2	No cracking or fractures. Note: Sample size modified to 3 pieces instead of 50 pieces as per ASTM C224.	
Flammability - Abuse Test For Container Interior (For filled containers and those having the potential risk of coming in contact with the flame)	Sustained Direct Flame (container inclined 45°) In-house Method	Internal surface of candle-holder only - the flame impingement should be 5 minutes. Shall not crack or break exposing a sharp point/edge or expose flame to the outside of the holder. Holder damage (non-hazardous) is acceptable.	
*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.	
Labelling 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 Uniform Laws and Regulations Handbook 130	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. Must be visible at point of purchase.	
Parts Labelling	Visual Check	Shall match the actual content if present.	
Verify Label Claims	ITS-M0060	Shall comply with all claims.	
Use Labelling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	

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Use and Care Instructions	Visual check	Shall be clear, concise, and understandable and - Provide step-by-step method of use. - Be provided in language appropriate to destination countries. Provide a copy of the instructions in the report.		
†Citronella Candles with Claims	EPA Registration / FIFRA 25 (b) Exemption	If a citronella candle makes a claim (Such as control or mitigate disease vectors —e.g., Lyme’s disease or West Nile Virus) it must be EPA registered (The label must include a EPA registration number). If the candle is not registered it must comply with the citronella candle labeling exemptions of 40 CFR 152. The vendor must provide proof of EPA registration. Lab will review documentation.		
†Citronella Candle Exemption Eligibility	40 CFR 152	A citronella candle may be exempt from EPA registration if: 1. It does not bear a claim to control or mitigate disease vectors 2. The active ingredients are listed in the FIFRA 25(f)(1) list 3. The product contains inert ingredients from the approved FIFRA list (Paraffin) (colorants are not listed) 4. It must have labeling identifying the name and percentage of each active and name of each inert ingredient		
†Candles - FPLA	16 CFR 501.7	Tapered candles and irregularly shaped decorative candles, which are either hand dipped or molded, do not need to be labeled with the diameter of the candle. The candles must be labeled with count and length or height in inches to meet the requirements of FPLA.		
		CANDLE	REQUIREMENT	
		Filled / Tea light Taper / Irregular Votive / Circular Votive / Irregular Pillar / Circular Pillar / Square	Wax weight only Height only Height x Diameter Height only Height x Diameter Height x Width	
(US Standard & Metric for all candles)				

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Cautionary Labeling	ASTM F2058-07	<p>A label conforming to ASTM F2058-07 must be provided in text-only option or text-and-pictogram option. The symbol/ information shall be given on the label as follows:</p> <p><u>Text-Only Option</u></p> <ul style="list-style-type: none"> - Safety alert symbol:  - Signal word: WARNING - The statements: "Burn within sight. Keep away from things that can catch fire. Keep away from children." or their practical equivalents. <p><u>Text-and-Pictogram Option</u></p> <ul style="list-style-type: none"> - Safety alert symbol:  - Pictogram  <ul style="list-style-type: none"> - The statements: "Burn within sight. Keep away from things that can catch fire. Keep away from children." or their practical equivalents. 	
Additional Cautionary Labeling	Visual check	<p>Shall provide additional safety information. For details, please refer to the following link for reference: http://www.candles.org/safety_rules.html</p>	

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

Risk classification:

Category	Candle type
Low Risk	Minimal decoration/paint Floating candles Dinner candles Large diameter Metal cup tea lights
High Risk	Highly decorated/painted Complex wax/wick structure Multi-wick structure Candles with inclusions Gel candles Tealights in non-metal containers