

TEST SPECIFICATION

Product:	Umbrella		
Scope:	Umbrella.	Protocol No.	TYCP-01027-US
		Version	1.0
		Issue Date	06 Oct, 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 Product (Non-toy) (Required if the product is graded as a children product)	Refer to TYCP-16026-US	Shall comply with all requirements in TYCP-16026-US. See Children's Products (Non-toy) 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% (90ppm) by weight of the total content.	
*†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.	
Physical Characteristic			
Dimensions	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Weight	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
Top Diameter (in.)	ITS-M0059	Report actual; shall meet label claims (if applicable).	
Center Pole Diameter	ITS-M0059	Report actual; shall meet label claims (if applicable).	
For Fabric Parts:			
*Fabric Weight	ASTM D3776	Report actual or +/- 5.0% from label claims.	
*Thread Count	ASTM D3775	Report actual or +/- 5.0% from label claims.	
*Fibre Content (if labeled)	AATCC 20 / AATCC 20A	Single fiber: No tolerance Blended fiber: +/- 3% Fibers (<5%): I.D. shown as "Other Fiber" with % Spandex (<5%): I.D. shown as %	
Construction & Workmanship			
Sharp Points / Edges	16 CFR 1500.48 / 1500.49	Shall have no sharp points / edges before or after abuse testing.	
Defects	Visual Check	Shall have no discernible surface degradation, including crazing, shivering, 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 Type	ITS-M0060	As claimed or observed.	
Performance Test			
Functionality	ITS-M0061	Shall function as intended as received.	

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Ease of Assembly	ITS-M0061	Following the instruction to assembly and disassembly the product; and comment the method of the installation. Parts shall not easy to break during normal use.	
Handle Security	ITS-M0061	shall have no crack or damage after 90N for 10 seconds.	
Operability	Actual Use	Should be capable of 100 open/close cycles without any failure.	
Resistance to Ribs Inversion	In-house method	The specific force is applied through a set of strings joining all the tip ends at the most adverse direction and pull invertly. No inversion occurred with the specific test force: Adult umbrella: min 40 lbs. Kid umbrella: min 23 lbs.	
Spring Force at Handle	ASTM F963 Section 8.10 (Modified)	Compression shall not exceed 5lbs. pushing force. Modification = expanded scope to other products and compression force	
Attachment Strength (Wire Tip)	ITS-M0028	Modification = clamping device shall provide a minimum of 25 lbs. pulling force	
*Seam Strength	ASTM D1683	CRE 30lbs./ in.	
*Seam Slippage	ASTM D434	CRE 30lbs./ in. at ¼ in.	
*Water Repellency (Spray Test)	AATCC 22	Minimum 90 Rating.	
*Water Resistance	AATCC 35	Max. 1g water penetration under 2 feet pressure for 2 mins.	
*Colorfastness to Dry Croaking	AATCC 8 / 116	Pigments/Napped Fabrics: Class 3.5 Others: Class 4.0	
*Colorfastness to Wet Croaking	AATCC 8 / 116	Pigments/Napped Fabrics: Class 3.0 Others: Class 3.5	
*Colorfastness to Light	AATCC 16 Option 3, 60 hrs	Class 4 minimum.	
*UV Blockness Test (if claimed)	AATCC 183	Report actual test data for UVA, UVB.	
*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 spray (fog))	
*Moisture Content (Solid wood only)	Oven Dry Method	Shall be between 8% - 12%.	
*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			
†Fair Packaging and Labeling Act (consumable products) OR	Fair Packaging & Labeling Act (16 CFR 500)	Manufacturer, packer, or distributor's name & address (city, state & zip).	
		Product Identification.	

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Uniform Packaging and Labeling Regulations (other products)	OR 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.	
Fibre Content	16 CFR 303 / 300 / Federal Trade Commission	Must be visible at point of sale & must comply with regulations (Textile Fibers Identification Act or Wool Products Labeling Act).	
RN# (Registered Number) or WPL# or Manufacturer Name	Visual Check	Verify presence (Textile Fiber Products Identification Act or Wool Products Labeling Act)	
Parts Labeling	Visual Check	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 include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes	
Verify Label Claims	ITS-M0060	Shall comply with all claims.	

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