



CONSUMER PRODUCTS SERVICES DIVISION

EXXEL OUTDOORS LLC

Technical Report: 66193360231
Date Received: DEC.02,2019

DEC.12,2019
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JET ZHU
EXXEL OUTDOORS LLC
6235 LOOKOUT ROAD, SUITE B, BOULDER, CO 80301

Sample Description:	A: SD SINGLE LIGHTWEIGHT HAMMOCK 93440720T, B: SD DOUBLE LIGHTWEIGHT HAMMOCK 93440820T		
Manufacturer:	WENZHOU KAISI OUTDOOR PRODUCTS CO.,LTD	PO No.:	NA
Buyer:	NA	Style:	NA
Country of Origin:	CHINA	Country of Destination:	USA
Color:	NA	SKU No.:	DPCI: 337070395,337075762
Protocol No.:	03035-USA	UPC Code:	NA
Previous Report No.:	NA	Lot No:	NA
Others:	BRAND: SD		

EXECUTIVE SUMMARY:

The Sample(s) MEET(S) following requirement(s):
The submitted sample MEETS the requirements of the protocol: 03035-USA- (V23) / HAMMOCK

SHA/ZJ/UH/H

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REMARK: The client specified the test method and requirement.

BVCPS (SHANGHAI) GENERAL CONTACT INFORMATION FOR THIS REPORT

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CONSUMER PRODUCTS SERVICE DIVISION (SHANGHAI)**
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KENNY ZHU
PRODUCT LINE MANAGER (FURNITURE & TRANSIT DIVISION)



**TEST PROTOCOL FOR
 03035-USA- (V23)
 HAMMOCK**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating	
SCOPE: This protocol is applicable to hammocks and hammock stands. Do not test hanging chairs or hanging chair frames to this protocol.						
SUPPLEMENTARY PROTOCOL						
Note: Additional cost, sample size and TAT may be required if testing to one or more supplemental protocol is necessary. Please refer to the below referenced supplemental protocol(s) for additional information.						
A	Master Supplemental Protocol	TRGT-GB-PTCL-30000-USA	-	All samples must be reviewed to Target's "Master Supplemental Protocol": TRGT-GB-PTCL-30000-USA This Protocol lists Supplemental Protocols to determine if additional testing or labeling is required. All products shall be tested to the applicable supplemental protocol(s). If there are additional supplemental protocols listed in applicable functional protocol(s), apply those as well. All applicable supplemental protocol(s) and tested lines shall be listed in the test report.	NR	-
LABELING						
R	Labeling review: fiber	16 CFR 300/303	All	Fiber content labeling shall meet all requirements for import and sale into the United States. Test for accuracy under physical characteristics: fiber content.	NR	-
	Claim verification	TRGT-HL-08612-MTHD	All	Examine the packaging (or submitted artwork) - Report each packaging claim. - Each claim shall be evaluated in accordance with the cited procedure.	NR	-
	Accuracy or adequacy of instructions	CPSD-GB-01057-MTHD	1	Shall include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes.	NR	-
	Repreve recycled polyester - Doc review	CPSD-GB-00001-MTHD	1	If claimed: Repreve recycled polyester For: All products Vendor must submit "Repreve" recycled polyester certificate from Unifi. Certificate must include Target fabrication identification number such as FR, FS or mill Art no.	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
			<p>Repreve content claim valid only if $\geq 20\%$ for denim and $\geq 30\%$ for all other fabrics. Combination of pre-consumer and post-consumer material can be used to achieve minimum 20%. Certification valid for 1 year only.</p> <p>If claims are made to recycled fiber vendor must submit a non-testable claim release form for recycled fiber content per Target DPCI.</p> <p>Brand callout is not required Format: without a brand claim X% recycled polyester X% polyester (Y% recycled polyester)</p> <p>Format: With a brand claim X% recycled polyester X% Repreve recycled polyester X% Repreve ® recycled polyester The ® trademark symbol for Repreve is optional.</p> <p>Pass/fail based on correct labeling and complete documentation Recycled claims cannot be made for fill (excluding jackets), fail if present.</p>		
Recycled synthetic fibers - Doc review	CPSD-GB-00001-MTHD	1	<p>If claimed: Recycled synthetic fibers (e.g, polyester) excludes Repreve recycled polyester For: All products</p> <p>Claim valid only if $\geq 20\%$ of the fabric is recycled. Combination of pre-consumer and post-consumer material can be used to achieve minimum 20%.</p> <p>If claims are made to recycled fiber vendor must submit a non-testable claim release form for recycled fiber content per Target DPCI.</p>	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
			Format: without a brand claim X% recycled polyester X% polyester (Y% recycled) Pass/fail based on correct labeling and complete documentation Recycled claims cannot be made for fill (excluding jackets) fail if present.		
Recycled natural fibers - Doc review	CPSD-GB-00001-MTHD	1	[If claimed Recycled natural fibers (e.g, cotton)] For all products Claim valid only if $\geq 5\%$ of the fabrics is recycled. Combination of pre-consumer and post-consumer material can be used to achieve minimum 5%. If claims are made to recycled fiber, vendor must submit a non-testable claim release form for recycled fiber content per Target DPCI. Format: X% recycled cotton If claims are made with conventional fiber + Recycled: Vendor must submit Format: X% cotton (Y% recycled cotton) Pass/fail based on correct labeling and complete documentation Recycled claims cannot be made for fill (excluding jackets) fail if present.	NR	-
ANALYTICAL					
A R Total lead in surface coating-XRF	16 CFR 1303/Consumer Product Safety	1	All accessible surface coatings in the assembled state on adult furniture [exempt factory applied coatings on metal components/parts] and household paint shall not contain lead in excess of 0.009% (90ppm) of the weight of the total content of paint or surface	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating	
	Improvement Act of 2008 / ASTM F2853-10(2015) / CPSD-AN-00494-MTHD		coating. Note: - Report actual results or include data table within report. - Issue a program audit report. - Test is applicable in paints and similar coatings on non-metal substrates, which the coating thickness cannot be less than 20 micrometers. - Not applicable on multi-color coating, metal coating, or coating on non-homogeneous substrate. - XRF testing should be performed only when insufficient coating / components parts received. - If any of 3 readings is >50% and < 150% of the limit OR if the average of the 3 readings has a >30% deviation, then the material will be analyzed by wet chemistry.			
A R	Total lead in surface coating	16 CFR 1303/Consumer Product Safety Improvement Act of 2008 / CPSC-CH-E1003-09.1 / CPSD-AN-00001-MTHD	1	All accessible surface coatings in the assembled state on adult furniture [exempt factory applied coatings on metal components/parts] and household paint shall not contain lead in excess of 0.009% (90ppm) of the weight of the total content of paint or surface coating. Report actual results or include data table within report Issue a program audit report Compositing is allowed as follows: Composite up to 3 similar colors/materials. Based on the CPSC standard, If any color/material in the composite exceeds 80% of the limit, based on the lowest weight component, then individual colors/materials will be analyzed.	M Black on metal: less than 10ppm, Orange/ black/ white on textile label: less than 10ppm, White on fabric: less than 10ppm	SAT
FLAMMABILITY						
A R	Solids - Flammability	16 CFR 1500.3(c)(6)(vi) / 16 CFR 1500.44	1	Shall not exceed the maximum allowable limit of no greater than 0.1 inches per second.	NR	-
PHYSICAL CHARACTERISTICS						
	Dimensions	CPSD-GB-01056-MTHD	1	Report overall dimensions; shall meet label claims (If applicable) (-0% / +5%).	NR	-
	Weight	CPSD-GB-01056-	1	Report overall weight; shall meet label claims (-0% / +5%)	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
	MTHD				
A Fiber content analysis	AATCC 20-18 / AATCC 20A-18	1	Blends - report actual (3% maximum tolerance - FTC) Single fiber - report actual (0% tolerance - FTC)	NR	-
A Target Real Fur and Rabbit Fiber Ban	AATCC 20-18 / AATCC 20A-18 / CPSD-GB-01057-MTHD / Target Requirement	1	Target does not allow Real Fur or Rabbit fibers in any products sold at Target. If product contains Real Fur or Rabbit fibers, lab will FAIL. Whenever AATCC 20/20A is required and applicable, testing is expanded to include AATCC 20/20A Fiber Analysis testing to determine if there is Real fur or Rabbit fiber in the product. This includes decorations, when applicable. If Real fur or Rabbit fibers are present, lab should FAIL this test line. If AATCC 20/20A testing is NA, this line is also NA. Definitions: Real fur: Any animal skin or part thereof with hair, fleece, or fur fibers attached thereto, either in its raw or processed state, but shall not include such skins as are to be converted into leather or which in processing shall have the hair, fleece, or fur fiber completely removed. Animal skin with hair/fleece/fur fibers attached is termed as Real Fur. Faux fur is any material made of synthetic fibers designed to resemble fur with no presence of animal skin.	NR	-
Fabric weight	ASTM D3776-09a (R2017)	2	As approval sample	NR	-
Parts inventory	CPSD-GB-01057-MTHD	All	Shall meet label claims.	NR	-
Material type	CPSD-GB-01057-MTHD	All	As claimed or labeled	NR	-
Features	CPSD-GB-01057-MTHD	All	[Height adjustable] Shall conform to claimed feature	NR	-
Product categorization review	CPSD-GB-01057-MTHD	1	[Client requirement] Categorize the product into one of the below categories per US/Target criteria: Children's Product - toy Children's Product - childcare Children's product - other	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
			General Use - adult Evaluate in this order and once a category is determined it is not necessary to continue down the list. Report category determination with no pass/fail.		
WORKMANSHIP					
Defects and workmanship	CPSD-GB-01057-MTHD	All	Shall have good workmanship with no defects, imperfections and missing components. Examples of defects and imperfections includes blistering, crazing, chips, delamination, dirt, discoloration, fractures, holes, malforms, marks, misalignments, misprints, pinholes, pimples, pits, puckering, resin streaks, ripples, scratches, splits, stains, tears, warpage, waves, wrinkles, etc.	NR	-
Sharp point and sharp edge	16 CFR 1500.48 & 49 (Mod)	All	Shall have no sharp points / edges, other than those required for function. Modification: Expanded scope to other products.	NR	-
PERFORMANCE					
Actual use - functionality	CPSD-GB-01058-MTHD	1	Shall function as intended as received. Report details of evaluation (features tested / methods used / materials used / etc.) Report any features not evaluated.	M	SAT
Distributed load capacity	CPSD-GB-01058-MTHD	1	[Hammock] Shall hold 1.25x claimed weight, or 500 lb load if not claimed, for 1 hour and 12 hours	M 500 lbs.	SAT
Breaking strength of textile fabrics: grab test	ASTM D5034-09 (R2017)	1	Minimum 100 lbs.	M Red fabric: warp: 141.0 lbs. weft: 109.0 lbs. Deep wine fabric: warp: 148.5 lbs. weft: 122.4 lbs. Blue fabric: warp: 140.6 lbs. weft: 113.0 lbs. Deep blue fabric: warp: 144.0 lbs. weft: 105.7 lbs.	SAT



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
Material strength	ASTM D5034-09 (R2017) (Mod)	1	[Straps-all materials] Minimum 150.0 lbf Modification: Expanded scope to other product.	M Over 150 lbs.	SAT
Ease of assembly	CPSD-HL-03027-MTHD	1	Shall provide ease of assembly and shall be accurate	NR	-
Failure in sewn seams	ASTM D1683-17(R2018) Modified	1	Seam Strength: Minimum 70 lbf Modification: Expanded scope to other products.	M 92.3 lbs.	SAT
Loading capacity	CPSD-GB-01058-MTHD	1	[Hammock Stand] Shall withstand 1.75 times claimed load capacity for 24 hours (claimed capacity shall be no less than 450 lb) without permanent deformation of frame. Note: Provide before and after photos of test as data. Note: If hammock is present, replace hammock with two chains strung from one end of the frame to the other to eliminate effect of stretching - support load on chains with a wood load platform securely attached between the chains.	NA	-
Dynamic stability	CPSD-GB-01058-MTHD	1	[Hammock Stand] Using same test setup as for loading test, secure a 300 lbs. total distributed load to the platform. Secure the base of one side of the frame to the test pad in a manner that will not allow the bottom of the frame to rise, but will allow the frame to rotate around the base. Pull the load out to the aside opposite the secured side of the frame until it is at a 45° angle to the floor. Release the load to allow it to swing freely through the frame towards the secured side. The frame shall not rotate and tip over to the secured side. Note whether the unsecured side of the frame rises from the floor at all. There shall be no permanent crack or deformation of frame.	NA	-
Protective caps on legs	CPSD-GB-01057-MTHD	All	Shall be non - marring	NR	-
Moisture content	CPSD-HL-01063-MTHD	1	Shall not exceed For composite wood (e.g. MDF /particleboard/plywood): 4 - 10%	NR	-



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Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
			For solid wood (outdoor use): 10 - 15% For solid wood (indoor use): 8 - 12%		
Effects of extreme temperature change	CPSD-HL-01012-MTHD	1	24 hours at 0 °F and 120 °F - No failure or visual change.	NR	-
Durability	CPSD-GB-01058-MTHD		[If applicable] [Folding/locking mechanism] [Carabiners included with hammocks, or hammock stands contain push button locks] All components shall have no damage after 100 open / close cycles.	NR	-
Resistance to corrosion	ASTM B117-18 (Mod) / CPSD-HL-01010-MTHD	1	[Outdoor use product] [Applicable to samples / sample components constructed of metal or samples with metallic coatings that can be exposed to the environment] Withstand 24 hours in 1% salt spray (fog) with no major corrosion or visual change. Modification = 1% salt (fog) spray.	M	SAT
Resistance to corrosion through humidity exposure	CPSD-HL-01007-MTHD	1	[Indoor use only] [Applicable to samples / sample components constructed of metal or samples with metallic coatings that can be exposed to the environment] Withstand 48 hours in 95% RH at 100°F with no major corrosion or visual change.	NR	-
COLORFASTNESS					
Colorfastness to light	AATCC 16.3-14	1	[Option 3] Grade 3.0 minimum after 60 AFU	M All Grade 4.0	SAT
Colorfastness to rotary crocking	AATCC 116-13	1	Dry: Grade 4.0 minimum Wet: Grade 3.0 minimum	M All Grade 4.5	SAT
Colorfastness to water	AATCC 107-13	1	Grade 3.0 minimum for 24 hours	M All Grade 3.0 & up	SAT
Colorfastness to perspiration	AATCC 15-13	1 per applicable color	Staining: Grade 3.0 minimum Color change: Grade 3.5 minimum	M All Grade 3.5 & up	SAT



** NOTE: For all protocols please refer to and include the supplemental test protocol TRGT-HL-PTCL-06572-US for California Proposition 65.

NOTE: It is the vendor's responsibility to ensure that the products they sell to Target Corporation comply with all United States federal, state, and local laws, regulations, and ordinances. A satisfactory Lab test result does not constitute a certification that a vendor's products meet all legal requirements. It is the vendor's responsibility to manufacture their items to comply with all applicable laws and in conformance with the purchase order terms and conditions on Partners Online

No. Of Samples Required for Complete Testing	3	
No. Of (Fully Packed) Cartons For Transit Testing:	1	
No. Of Working Days For Complete Testing:	7	

Client Approval:	
Creation Date:	13/Dec/2012
Last Revision Date:	13/Aug/2019
Pricing Review Date	
Technical Review Date:	

Key

A Additional Charge For This Test
 M Mandatory Requirement
 R Regulatory

Result Key

C Claimed
 R Recorded
 M Meets
 NM Does Not Meet
 NA Not Applicable
 NT Not Tested

Rating Key

SAT Satisfactory
 UNSAT Unsatisfactory



SAMPLE PHOTO

